

Final QE Review:

Date: 4-7-03

WO/SC/PO No. S00-021052	Requester: D. Nishioka	Requester Approval: <i>DAVE NISHIOKA POC EMAIL</i>	QE: Ron Staymates <i>RS</i>
Activity/Project Description: OU 7-10 Glovebox Excavator Method Facility Package Receipt Inspection Activities <i>7/14/03</i>			Release Date: 2-14-03

IP No. 21052-R-03 <i>05</i>		Rev. 0	
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference
N/A	N/A	N/A	N/A
<p>Subcontractor material that is safety class (Q-1), safety significant (Q-2) or low safety consequence (Q-3) requires receipt inspection. This includes the following items, as a minimum: (see Form 414.02 & 414.70 for details)</p> <p>1) Inspector shall record the following information on the Inspection Report:</p> <p>A) item description <i>one roll</i></p> <p>B) VDS item number, as applicable <i>certificate of conformance</i></p> <p>C) Quantity inspected <i>100 ft</i></p> <p>D) Serial numbers/unique identifying numbers <i>P.O. 17531</i></p>			
1.0	Architectural Fabric	PR-6416	Visual / 100%
<p>Verify the following conditions, as applicable</p> <p>1) Damage <i>CEP 3-5-03</i></p> <p>2) Cleanliness <i>CEP 3-5-03</i></p> <p>3) protective coating <i>CEP 3-5-03</i></p> <p>4) markings / identification <i>CEP 3-5-03</i></p> <p>5) dimensional (random) - size approved fab drawings, catalogue cuts, et- & ++</p> <p>6) surface condition / finish <i>CEP 3-5-03</i></p> <p>7) weld appearance <i>N/A</i></p> <p>8) end protection <i>CEP 3-5-03</i></p> <p>9) end preparation <i>N/A</i></p> <p>10) storage level & segregation per MCP-9436 (this is not an accept/reject attribute. If material is not being segregated, document on an IR and forward the IR to the QE <i>CEP 3-5-03</i>)</p> <p>IR number: <i>021052-C-097</i></p>			

CONSTRUCTION INSPECTION LANNING PACKAGE

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IP No. 21052-R-03		Rev. 0			
No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
1.1	Per Form 431.53 For Part Number 702S, dated 1/29/03 (copy attached)	MCP-3772 / TPR-6416	Verify / 100%	Perform inspections specified on the CGI Forms 431.53, for the items identified on the CGI forms. Document inspections on an IR Form 414.03. Record IR numbers: 021052-C-097	3-5-03 CER
1.2	Architectural Fabric Ref: Form 414.02 and / or 414.70	TPR-6416	Verify / 100%	Apply a QC Accept tag to the items, where practical. When this is not feasible, the tag shall be placed with the inspection report for future reference. NOTE: All items accepted shall be uniquely identified to indicate acceptance. This identification shall consist of either placing a tag, where possible or by applying the QA number and initial/date physically on the item with a black indelible marker.	3-5-03 CER
2.0	Inspection Plan	MCP-2482	Verify	Verify that all inspections have been completed and forward this inspection plan to the QE for closure.	3-5-03 CER

INSPECTION PLAN GENERAL NOTES

- IF ANY ATTRIBUTE IS FOUND TO BE UNSATISFACTORY ON THE CIP, THEN ADDITIONAL INSPECTIONS SHALL BE PERFORMED UNTIL REASONABLE ASSURANCE IS ACHIEVED TO CONFIRM COMPLIANCE WITH THE INSPECTION PLAN REQUIREMENTS.
- ALL INSPECTIONS, EXCEPT WELDING SHALL BE DOCUMENTED ON FORM 414.03, "QUALITY INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP. INSPECTION REPORTS SHALL BE COMPLETED AT LEAST DAILY. ANY IR REQUIRING ACTION SHALL BE FORWARDED TO THE QE FOR RESOLUTION.
- WELDING INSPECTIONS SHALL BE DOCUMENTED ON FORM 414.04 "VISUAL INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP OR ON THE WELD HISTORY RECORDS (FORM 432.43, 432.44 AND 432.46)
- WHEN DOCUMENTING INSPECTIONS, INCLUDE LOCATIONS OR OTHER IDENTIFICATION INFORMATION (HEAT NUMBER, LINE NUMBER, ROOM NUMBER, ETC.) TO PROVIDE TRACEABILITY TO THE ITEM.
- ANY DESIGN CHANGE DOCUMENTS UTILIZED FOR INSPECTION/ ACCEPTANCE WILL ALSO BE DOCUMENTED ON FORM 414.03 OR NOTED ON THE APPLICABLE CIP ATTRIBUTE.
- ATTACH A COPY OF ANY ASSOCIATED DOCUMENTS THAT WILL PROVIDE TRACEABILITY OR CLARIFICATION OF INSPECTIONS PERFORMED (IE: BATCH TICKETS).
- M & TE SERIAL NUMBERS AND CALIBRATION DUE DATES HAVE BEEN RECORDED.
- NCR / DR INFORMATION HAS BEEN RECORDED PER MCP-538 / 698.
- ALL BLANKS HAVE BEEN COMPLETED OR N/A'D.
- WHEN PERFORMING LIQUID PENETRANT EXAMINATION RECORD THE BATCH NUMBERS ON EITHER THE WELD HISTORY RECORD OR THE IR OR THE CIP.

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CONSTRUCTION INSPECTOR PLANNING PACKAGE

- 11) ALL LINE-OUTS OR WRITE OVERS HAVE BEEN INITIALED AND DATED.
- 12) VERIFY THAT APPLICABLE VDS DOCUMENTS HAVE BEEN APPROVED OR SUBMITTED, AS APPLICABLE, PRIOR TO PERFORMING INSPECTIONS.
- 13) INSTALLATION INSPECTIONS SHALL INCLUDE, AS A MINIMUM, THE FOLLOWING ATTRIBUTES, AS APPLICABLE TO THE EQUIPMENT BEING INSPECTED
 - A) ANCHOR BOLT PLACEMENT
 - B) ANCHOR BOLT TORQUE
 - C) LOCATION
 - D) ELEVATION
 - E) ORIENTATION
- 14) INSPECTIONS SHALL INCLUDE VERIFICATION FOR POTENTIALLY SUSPECT / COUNTERFEIT ITEMS PER MCP-9110.
- 15) ALL ATTRIBUTES IN THIS PLAN, EXCEPT THOSE THAT REQUIRE A SPECIFIC QUALIFICATION, (I.E. WELDING, NDE, HYDROSTATIC, PNEUMATIC, ETC.) MAY BE PERFORMED BY QUALIFIED PERSONNEL OTHER THAN A "GENERAL INSPECTOR".
- 16) WHEN CONFLICTS ARISE THAT PRECLUDE THE INSPECTOR FROM PERFORMING A VERIFICATION ACTIVITY, THE INSPECTOR IS ALLOWED TO DOCUMENT COMPLETION OF INSPECTION STEPS, BASED ON OBJECTIVE EVIDENCE FROM THE COGIZANT STR OR QE THAT THOSE STEPS HAVE BEEN COMPLETED AS DESCRIBED IN THE INSPECTION PLAN. ATTACH COPIES OF THE OBJECTIVE EVIDENCE TO THIS PLAN.

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CONSTRUCTION INSPECTION PLANNING PACKAGE

Final QE Review:

Date: 4-7-03

WO/SC/PO No. 021052	Requester: Steve Davies	Requester Approval: STEVE DAVIES PER EMAIL	QE: Ron Staymates 1/08/03
Activity/Project Description: OU 7-10 Glovebox Excavator Method Facility (FCR 13233-76)			Release Date: 1-20-03
Floor Structure is safety significant (Q2) / WES is low safety consequence (Q3) / RCS is safety significant (Q2)			

No. 21052-S-11		Rev. 0			
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
				SEE ATTACHED GENERAL NOTES PAGE FOR ADDITIONAL INFORMATION RELATIVE TO M I S INSPECTION. ALL SAFETY SIGNIFICANT AND LOW SAFETY CONSEQUENCE WELDING PROCESSES SHALL BE DOCUMENTED ON FORMS 432.44 AND 432.45 OR FORM 432.43 OR THE DRAWINGS.	
1.0	Stud Welds	FCR-13233-76 and AWS C5.4 (copy attached)	Verify 100%	Verify that the mechanical test specified in section 9 is performed and acceptable prior to each initiation of production welding. Record IR number: 021052-S-094	3-4-03 CEP
1.1	Stud Welds	FCR-13233-76 and AWS C5.4 (copy attached)	Verify 100%	Verify that the requirements of AWS C5.4, section 6 are being complied with, including base metal prep., equipment setup, etc. Record IR number: 021052-S-094	3-4-03 CEP
1.2	Stud Welds	FCR-13233-76 and AWS C5.4 (copy attached)	Verify 100%	Verify that the requirements of AWS C5.4, section 8 are being complied with, including locating, perpendicularity, accessories, etc. Record IR number: 021052-S-094	3-4-03 CEP
1.3	Stud Welds	FCR-13233-76 and AWS C5.4 (copy attached)	TPR-4981 Visual 100% Static Loaded HOLD POINT	Visually inspect welds per AWS C5.4, section 9. Record IR Number: 021052-S-094	3-4-03 CEP
2.0	Structural Steel and Misc. Metal	MCP-9110	Verify Random	Verify that no suspect / counterfeit items have been utilized. Record IR number: 021052-S-094	3-4-03 CEP
3.0	General	MCP-9438 App. A, B & C	Verify Random Checklist 414.A33	Verify that materials / items are segregated based on quality level, with no commingling of quality levels. Record IR number: 021052-S-094	3-4-03 CEP
3.1	General	MCP-9438 App. A, B & C And STD-7006	Verify Random Checklist 414.A33	Verify that traceability markings (QA numbers, heat numbers, etc.) are transferred when material is subdivided. (transfer can be by marking, tagging or other unique identifier) Record IR number: 021052-S-094	3-4-03 CEP

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Two Studs And Equipment
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CONSTRUCTION INSPECTION PLANNING PACKAGE

IP No. 21052-S-11		Rev. 0			
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
4.0		MCP-2482	Verify	Verify that all inspections have been completed and forward this inspection plan to the QE for closure.	3-11-93 CER

INSPECTION PLAN GENERAL NOTES

- 1) IF ANY ATTRIBUTE IS FOUND TO BE UNSATISFACTORY ON THE CIP, THEN ADDITIONAL INSPECTIONS SHALL BE PERFORMED UNTIL REASONABLE ASSURANCE IS ACHIEVED TO CONFIRM COMPLIANCE WITH THE INSPECTION PLAN REQUIREMENTS.
- 2) ALL INSPECTIONS, EXCEPT WELDING SHALL BE DOCUMENTED ON FORM 414.03, "QUALITY INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP. INSPECTION REPORTS SHALL BE COMPLETED AT LEAST DAILY. ANY IR REQUIRING ACTION SHALL BE FORWARDED TO THE QE FOR RESOLUTION.
- 3) WELDING INSPECTIONS SHALL BE DOCUMENTED ON FORM 414.04 "VISUAL INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP OR ON THE WELD HISTORY RECORDS [FORM 432.43, 432.44 AND 432.45]
- 4) WHEN DOCUMENTING INSPECTIONS, INCLUDE LOCATIONS OR OTHER IDENTIFICATION INFORMATION [HEAT NUMBER, LINE NUMBER, ROOM NUMBER, ETC.] TO PROVIDE TRACEABILITY TO THE ITEM.
- 5) ANY DESIGN CHANGE DOCUMENTS UTILIZED FOR INSPECTION/ ACCEPTANCE SHALL ALSO BE DOCUMENTED ON FORM 414.03 OR NOTED ON THE APPLICABLE CIP ATTRIBUTE.
- 6) ATTACH A COPY OF ANY ASSOCIATED DOCUMENTS THAT WILL PROVIDE TRACEABILITY OR CLARIFICATION OF INSPECTIONS PERFORMED (IE: BATCH TICKETS).
- 7) MATERIAL SERIAL NUMBERS AND CALIBRATION DUE DATES HAVE BEEN RECORDED.
- 8) NCR / DR INFORMATION HAS BEEN RECORDED PER MCP-538 / 598.
- 9) ALL BLANKS HAVE BEEN COMPLETED OR N/A'D
- 10) ALL LINE-OUTS OR WRITE OVERS HAVE BEEN INITIALED AND DATED.
- 11) VERIFY THAT APPLICABLE VDS DOCUMENTS HAVE BEEN APPROVED OR SUBMITTED, AS APPLICABLE, PRIOR TO PERFORMING INSPECTIONS.
- 12) INSTALLATION INSPECTIONS SHALL INCLUDE, AS A MINIMUM THE FOLLOWING ATTRIBUTES, AS APPLICABLE TO THE EQUIPMENT BEING INSPECTED:
 - A) ANCHOR BOLT PLACEMENT
 - B) ANCHOR BOLT TORQUE
 - C) LOCATION
 - D) ELEVATION
 - E) ORIENTATION
- 13) INSPECTIONS SHALL INCLUDE VERIFICATION FOR POTENTIALLY SUSPECT / COUNTERFEIT PARTS OR COMPONENTS PER MCP-9110.
- 14) ALL ATTRIBUTES IN THIS PLAN, EXCEPT THOSE THAT REQUIRE A SPECIFIC QUALIFICATION, (I.E. WELDING, NDE, HYDROSTATIC, PNEUMATIC, ETC.) MAY BE PERFORMED BY PERSONNEL QUALIFIED AS A "GENERAL INSPECTOR".

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414.81#
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Rev. #01

CONSTRUCTION INSPECTION PLANNING PACKAGE

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Final QE Review:

Ron Staymates

Date:

3/5/03

WO/SC/PO No. 021052	Requester: Steve Davies	Requester Approval: <i>STEVE DAVIES PER EMD-4</i>	QE: Ron Staymates 2/14/2003 <i>R</i>
Activity/Project Description: OU 7-10 Glovebox Excavator Method Facility (REWORK OF PGS #2 FIRE PIPE SEAL WELD PER NCR-30108)			2/17/03
Seal weld is safety significant (Q2)			Release Date: 2-17-03

IP No. 21052-5-12		Rev. 0			
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
				SEE ATTACHED GENERAL NOTES PAGE FOR ADDITIONAL INFORMATION RELATIVE TO THIS INSPECTION. ALL SAFETY SIGNIFICANT AND LOW SAFETY CONSEQUENCE WELDING PROCESSES SHALL BE DOCUMENTED ON FORMS 432.44 AND 432.45 OR FORM 432.43 OR THE DRAWINGS. Absolute representative to witness the NDE operations specified in Item 3.0 and 3.1 and needs to sign the inspection plan and the NDE reports.	
1.0	Weld Repair	NCR-30108	TPR-4981 Visual 100% HOLD POINT	Visually inspect excavation area per AWS D1.6. [copy attached] NOTE: Weld size is not applicable for this inspection, only the weld quality is critical. Record IR Number: 021052-P-089 Absolute Representative Witness:	2-24-03 CER
1.1	Weld Repair	NCR-30108	TPR-4975 App. D Visual 100% Hold Point	Perform Liquids Penetrant examination (water washable color contrast) of the excavation area per AWS D1.6 (copy attached). Record IR Number 021052-P-089 Absolute Representative Witness:	2-24-03 CER
2.0	Weld Repair	NCR-30108	Verify 100%	Verify that the welders are qualified to perform the welding process and have a current qualification. Record IR number: 021052-P-089	2-24-03 CER
2.1	Weld Repair	NCR-30108	Verify 100%	Verify that the filler metal is the correct type per the WPS 52.0 and that it is traceable to a typical CMTR. Record IR number: 021052-P-089	2-24-03 CER

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CONSTRUCTION INSPECTION PLANNING PACKAGE

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IP No. 21052-S-12		Rev. 0			
Item	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
2.2	Weld Repair	NCR-30108	Verify 100%	Verify that the welding process is being performed in accordance with the parameters defined in the WPS, including the following: a) base metal preparation b) cleaning c) preheat temperature d) interpass temperature e) temporary welds f) backing strips/runoff tabs g) joint preparation Record IR number: 021052-12089	2-24-03 CEK
2.4	Weld Repair	NCR-30108	Verify 100%	Verify that arc strikes have been ground to a smooth contour but no more than 1/32 in. of base metal shall be removed. Arc strikes exceeding more than 1/32 in. into the base metal shall be considered as a weld defect and repaired as specified. Record IR number: 021052-P-089	2-24-03 CEK
3.0	Weld Repair	NCR-30108	TPR-4981 Visual 100% HOLD POINT	Visually inspect rework area per AWS D1.6 (copy attached) NOTE: Weld size is not applicable for this inspection, only the weld quality is critical. Record IR Number: 021052-P-089 Absolute Representative Witness: <u>Van Buren 2/20/03</u> Absolute representative to witness the NDE and sign the inspection plan and the NDE reports.	2-24-03 CEK
3.1	Weld Repair	NCR-30108	TPR-4975 App. D Visual 100% Hold Point	Perform Liquids Penetrant examination (water washable color contrast) of the reworked area per AWS D1.6 (copy attached) Record IR Number: 021052-P-089 Absolute Representative Witness: <u>Van Buren 2/20/03</u> Absolute representative to witness the NDE and sign the inspection plan and the NOE reports.	2-24-03 CEK
4.0	Weld Repair	MCP-9110	Verify Random	Verify that no suspect / counterfeit items have been utilized. Record IR number: 021052-P-089	2-24-03 CEK
5.0		MCP-2482	Verify	Verify that all inspections have been completed and forward this inspection plan to the QE for closure.	2-24-03 CEK

CONSTRUCTION INSPECTION PLANNING PACKAGE

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INSPECTION PLAN GENERAL NOTES

- 1) IF ANY ATTRIBUTE IS FOUND TO BE UNSATISFACTORY ON THE CIP, THEN ADDITIONAL INSPECTIONS SHALL BE PERFORMED UNTIL REASONABLE ASSURANCE IS ACHIEVED TO CONFIRM COMPLIANCE WITH THE INSPECTION PLAN REQUIREMENTS.
- 2) ALL INSPECTIONS, EXCEPT WELDING SHALL BE DOCUMENTED ON FORM 414.03, 'QUALITY INSPECTION REPORT' AND ATTACHED TO THE APPLICABLE CIP. INSPECTION REPORTS SHALL BE COMPLETED AT LEAST DAILY. ANY IR REQUIRING ACTION SHALL BE FORWARDED TO THE QE FOR RESOLUTION.
- 3) WELDING INSPECTIONS SHALL BE DOCUMENTED ON FORM 414.04 'VISUAL INSPECTION REPORT' AND ATTACHED TO THE APPLICABLE CIP OR ON THE WELD HISTORY RECORDS (FORM 432.43, 432.44 AND 432.45)
- 4) WHEN DOCUMENTING INSPECTIONS, INCLUDE LOCATIONS OR OTHER IDENTIFICATION INFORMATION (HEAT NUMBER, LINE NUMBER, ROOM NUMBER, ETC.) TO PROVIDE TRACEABILITY TO THE ITEM.
- 5) ANY DESIGN CHANGE DOCUMENTS UTILIZED FOR INSPECTION / ACCEPTANCE SHALL ALSO BE DOCUMENTED ON FORM 414.03 OR NOTED ON THE APPLICABLE CIP ATTRIBUTE.
- 6) ATTACH A COPY OF ANY ASSOCIATED DOCUMENTS THAT WILL PROVIDE TRACEABILITY OR CLARIFICATION OF INSPECTIONS PERFORMED (IE: BATCH TICKETS).
- 7) M & TE SERIAL NUMBERS AND CALIBRATION DUE DATES HAVE BEEN RECORDED.
- 8) NGR / DR INFORMATION HAS BEEN RECORDED PER MCP-538/ 598.
- 9) ALL BLANKS HAVE BEEN COMPLETED OR WAD.
- 10) ALL LINE-OUTS OR WRITE OVERS HAVE BEEN INITIALED AND DATED.
- 11) VERIFY THAT APPLICABLE VDS DOCUMENTS HAVE BEEN APPROVED OR SUBMITTED, AS APPLICABLE, PRIOR TO PERFORMING INSPECTIONS.
- 12) INSTALLATION INSPECTIONS SHALL INCLUDE, AS A MINIMUM THE FOLLOWING ATTRIBUTES. AS APPLICABLE TO THE EQUIPMENT BEING INSPECTED:
 - A) ANCHOR BOLT PLACEMENT
 - B) ANCHOR BOLT TORQUE
 - C) LOCATION
 - D) ELEVATION
 - E) ORIENTATION
- 13) INSPECTIONS SHALL INCLUDE VERIFICATION FOR POTENTIALLY SUSPECT / COUNTERFEIT PARTS OR COMPONENTS PER MCP-8110.
- 14) ALL ATTRIBUTES IN THIS PLAN. EXCEPT THOSE THAT REQUIRE A SPECIFIC QUALIFICATION, (I.E. WELDING, NOE, HYDROSTATIC, PNEUMATIC, ETC.) MAY BE PERFORMED BY PERSONNEL QUALIFIED AS A 'GENERAL INSPECTOR'.
- 15) CHECKLIST 414.115 IS BEING PILOTED IN THIS INSPECTION PLAN (REF. TPR 4021). AND SUBJECT TO CLARIFICATION / REVISION DURING THE CONSTRUCTION ACTIVITIES WITH THE APPROVAL OF THE QE AND THE RE. *RB 3/6/93 ERK*

CONSTRUCTION INSPECTION PLANNING PACKAGE

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Final QE Review:

Ron Staymates

Date:

5/14/03

WO/SC/PO No. 021052	Requester: Steve Davies	Requester Approval: <i>STEVE DAVIES PER EMAIL 4/24/03</i>	QE: Ron Staymates 4/26/03 <i>RF</i>
Activity/Project Description: OU 7-10 Glovebox Excavator Method Facility (RCS PENETRATION ACTIVITIES Per FCR-13233-1ed)			
Floor Structure is safety significant (Q2) / WES is low safety consequence (Q3) / RCS is safety significant (Q2)			Release Date: <i>4-26-03</i>

P No. 21052-M-18		Rev. 0			
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Data
				SEE ATTACHED GENERAL NOTES PAGE FOR ADDITIONAL INFORMATION RELATIVE TO THIS INSPECTION. ALL SAFETY SIGNIFICANT AND LOW SAFETY CONSEQUENCE WELDING PROCESSES SHALL BE DOCUMENTED ON FORMS 432.44 AND 432.45 OR FORM 432.43 OR THE DRAWINGS.	
1.0	General	TPR-6416	Verify 100%	Verify that Receipt Inspection has been performed per 21052-R-07 on the items being inspected.	<i>5-12-03 CER</i>
2.0	RCS Seal Welds	FCR-13233-190	Verify 100%	Verify that the welders are qualified to perform the welding process and have a current qualification. Record IR number: <i>021052-M-128</i>	<i>5-12-03 CER</i>
2.1	RCS Seal Welds	FCR-13233-190	Verify 100%	Verify that the filler metal is the correct type per the WPS and that it is traceable to a typical CMTR. Record IR number:	<i>5-12-03 CER</i>
2.2	RCS Seal Welds	FCR-13233-190	Verify 100%	Verify that the welding process is being performed in accordance with the parameters defined in the WPS, including the following: a) base metal preparation <i>CER 5-12-03</i> b) cleaning <i>CER 5-12-03</i> c) preheat temperature <i>N/A</i> d) interpass temperature <i>N/A</i> e) temporary welds <i>N/A</i> f) backing strips/runoff tabs <i>N/A</i> g) joint preparation <i>CER 5-12-03</i> Record IR number: <i>021052-M-128</i>	<i>5-12-03 CER</i>
2.3	RCS Seal Welds	FCR-13233-190	Verify 100%	Verify that arc strikes have been ground to a smooth contour but no more than 1/32 in. of base metal shall be removed. Arc strikes exceeding more than 1/32 in. into the base metal shall be considered as a weld defect and repaired as specified. Record IR number: <i>021052-M-128</i>	<i>5-12-03 CER</i>

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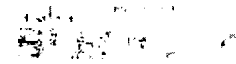
IP No. 21052-M-18		Rev. 0			
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
2.4	RCS Seal Welds	FCR-13233-190	TPR-4981 Visual 100% Static Loaded HOLD POINT	Visually inspect welds per AWS D1.6. (copy attached) NOTE: Weld size is not applicable for this inspection, only the weld quality is critical. Record IR Number: 021052-M-128	5-12-03 CEK
3.0	Structural Steel and Misc. Metal	MCP-9110	Verify Random	Verify that no suspect / counterfeit items have been utilized. Record IR number: 021052-M-128	5-12-03 CEK
4.0	General	MCP-2482	Verify	Verify that all inspections have been completed and forward this inspection plan to the QE for closure.	5-12-03 CEK

INSPECTION PLAN GENERAL NOTES

- IF ANY ATTRIBUTE IS FOUND TO BE UNSATISFACTORY ON THE CIP, THEN ADDITIONAL INSPECTIONS SHALL BE PERFORMED UNTIL REASONABLE ASSURANCE IS ACHIEVED TO CONFIRM COMPLIANCE WITH THE INSPECTION PLAN REQUIREMENTS.
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- M & TE SERIAL NUMBERS AND CALIBRATION DUE DATES HAVE BEEN RECORDED,
- NCR / DR INFORMATION HAS BEEN RECORDED PER MCP-638 / 588.
- ALL BLANKS HAVE BEEN COMPLETED OR N/A'D.
- ALL LINE-OUTS OR WRITE OVERS HAVE BEEN INITIALED AND DATED.
- VERIFY THAT APPLICABLE VDS DOCUMENTS HAVE BEEN APPROVED OR SUBMITTED, AS APPLICABLE, PRIOR TO PERFORMING INSPECTIONS.
- INSTALLATION INSPECTIONS SHALL INCLUDE, AS A MINIMUM THE FOLLOWING ATTRIBUTES, AS APPLICABLE TO THE EQUIPMENT BEING INSPECTED:
 - ANCHOR BOLT PLACEMENT
 - ANCHOR BOLT TORQUE
 - LOCATION
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- INSPECTIONS SHALL INCLUDE VERIFICATION FOR POTENTIALLY SUSPECT / COUNTERFEIT PARTS OR COMPONENTS PER MGP-9110.

414.81#
09/08/97
Rev. #01

CONSTRUCTION INSPECTION PLANNING PACKAGE



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- 14) ALL ATTRIBUTES IN THIS PLAN, EXCEPT THOSE THAT REQUIRE A SPECIFIC QUALIFICATION, (I.E. WELDING, NDE, HYDROSTATIC, PNEUMATIC, ETC.) MAY BE PERFORMED BY PERSONNEL QUALIFIED AS A 'GENERAL INSPECTOR'.

14.81#
09/08/97
Rev. #01

CONSTRUCTION INSPECTION PLANNING PACKAGE

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Final QE Review:

Ron Staymates

Date:

5-14-03

WO/SC/PO No. 021052	Requester: Steve Davies	Requester Approval: <i>STEVE DAVIES FOR ENHANC 4/26/03</i>	QE: Ron Staymates 4/25/03 <i>RS</i>
Activity/Project Description: OU 7-10 Glovebox Excavator Method Facility (DCN FS-28 SEAL WELDS) Floor Structure is safety significant (Q2) / WES is low safety consequence (Q3) / RCS is safety significant (Q2)			Release Date: 4/26/03

P No. 21052-M-17		Rev. 0			
item NO.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
				SEE ATTACHED GENERAL NOTES PAGE FOR ADDITIONAL INFORMATION RELATIVE TO THIS INSPECTION. ALL SAFETY SIGNIFICANT AND LOW SAFETY CONSEQUENCE WELDING PROCESSES SHALL BE DOCUMENTED ON FORMS 432.44 AND 432.45 OR FORM 432.43 OK THE DRAWINGS.	
1.0	Seal Welds	DCN FS-28	Verify 100%	Verify that the welders are qualified to Perform the welding process and have a current qualification. Record IR number: <i>021052-M-130</i>	<i>5-12-03</i> <i>CEK</i>
1.1	Seal Welds	DCN FS-28	Verify 100%	Verify that the filler metal is the correct type per the WPS and that it is traceable to a typical CMTR. Record IR number: <i>021052-M-130</i>	<i>5-12-03</i> <i>CEK</i>
1.2	Seal Welds	DCN FS-28	Verify 100%	Verify that the welding process is being performed in accordance with the parameters defined in the WPS, including the following: a) base metal preparation <i>CEK 5-12-03</i> b) cleaning <i>CEK 5-12-03</i> c) preheat temperature <i>N/A</i> d) interpass temperature <i>N/A</i> e) temporary welds <i>N/A</i> f) backing strips/runoff tabs <i>N/A</i> g) joint preparation <i>N/A</i> Record IR number: <i>021052-M-130</i>	<i>5-12-03</i> <i>CEK</i>
1.4	Seal Welds	DCN FS-28	Verify 100%	Verify that arc strikes have been ground to a smooth contour but no more than 1/32 in. of base metal shall be removed. Arc strikes exceeding more than 1/32 in. into the base metal shall be considered as a weld defect and repaired as specified. Record IR number: <i>021052-M-130</i>	<i>5-12-03</i> <i>CEK</i>

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CONSTRUCTION INSPECTION PLANNING PACKAGE

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IP No. 21052-M-17		Rev. 0			
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
1.5	Seal Welds	DCN FS-28	TPR-4981 Visual 100% Static Loaded HOLD POINT	Visually inspect welds per AWS D1.6 (copy Attached). NOTE: Weld size is not applicable for this inspection, only the weld quality is critical. Record IR Number: 021052-M-130	5-12-03 CEK
2.0		MCP-2482	Verify	Verify that all inspections have been completed and forward this inspection plan to the QE for closure.	5-12-03 CEK

INSPECTION PLAN GENERAL NOTES

- IF ANY ATTRIBUTE IS FOUND TO BE UNSATISFACTORY ON THE CIP, THEN ADDITIONAL INSPECTIONS SHALL BE PERFORMED UNTIL REASONABLE ASSURANCE IS ACHIEVED TO CONFIRM COMPLIANCE WITH THE INSPECTION PLAN REQUIREMENTS.
- ALL INSPECTIONS, EXCEPT WELDING SHALL BE DOCUMENTED ON FORM 414.03, "QUALITY INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP. INSPECTION REPORTS SHALL BE COMPLETED AT LEAST DAILY. ANY IR REQUIRING ACTION SHALL BE FORWARDED TO THE QE FOR RESOLUTION.
- WELDING INSPECTIONS SHALL BE DOCUMENTED ON FORM 414.04 "VISUAL INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP OR ON THE WELD HISTORY RECORDS (FORM 432.43, 432.44 AND 432.45)
- WHEN DOCUMENTING INSPECTIONS, INCLUDE LOCATIONS OR OTHER IDENTIFICATION INFORMATION (HEAT NUMBER, LINE NUMBER, ROOM NUMBER, ETC.) TO PROVIDE TRACEABILITY TO THE ITEM.
- ANY DESIGN CHANGE DOCUMENTS UTILIZED FOR INSPECTION/ ACCEPTANCE SHALL ALSO BE DOCUMENTED ON FORM 414.03 OR NOTED ON THE APPLICABLE CIP ATTRIBUTE.
- ATTACH A COPY OF ANY ASSOCIATED DOCUMENTS THAT WILL PROVIDE TRACEABILITY OR CLARIFICATION OF INSPECTIONS PERFORMED (IE: BATCH TICKETS).
- M & TE SERIAL NUMBERS AND CALIBRATION DUE DATES HAVE BEEN RECORDED.
- NCR / DR INFORMATION HAS BEEN RECORDED PER MCP-538 / 598
- ALL BLANKS HAVE BEEN COMPLETED OR W.A.D.
- ALL LINE-OUTS OR WRITE OVERS HAVE BEEN INITIALED AND DATED.
- VERIFY THAT APPLICABLE VDS DOCUMENTS HAVE BEEN APPROVED OR SUBMITTED, AS APPLICABLE, PRIOR TO PERFORMING INSPECTIONS.
- INSTALLATION INSPECTIONS SHALL INCLUDE, AS A MINIMUM THE FOLLOWING ATTRIBUTES, AS APPLICABLE TO THE EQUIPMENT BEING INSPECTED
 - ANCHOR BOLT PLACEMENT
 - ANCHOR BOLT TORQUE
 - LOCATION
 - ELEVATION
 - ORIENTATION
- INSPECTIONS SHALL INCLUDE VERIFICATION FOR POTENTIALLY SUSPECT / COUNTERFEIT PARTS OR COMPONENTS PER MCP-9110.
- ALL ATTRIBUTES IN THIS PLAN, EXCEPT THOSE THAT REQUIRE A SPECIFIC QUALIFICATION, (I.E. WELDING, NDE, HYDROSTATIC, PNEUMATIC, ETC.) MAY BE PERFORMED BY PERSONNEL QUALIFIED AS A "GENERAL INSPECTOR".

CONSTRUCTION INSPECTION PLANNING PACKAGE

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Final QE Review:

Ron Staymates

Date:

5-7-03

WO/SC/PO No. S00-021052	Requester: S Davies	Requester Approval: <i>STEVE DAVIES PER EMAIL 4/28/03</i>	QE: Ron Staymates 4/28/03 <i>RS</i>
Activity/Project Description: OU 7-10 Glovebox Excavator Method Facility Package Receipt Inspection Activities (Misc. RCS Nipples and Sheet Metal Screws)			Release Date: 4-28-03

IP No. 21052-R-07		Rev. 1	Revised 1.1 and 2.1, deleted vendor data requirement,		
Item NO.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
N/A	N/A	N/A	N/A	<p>Subcontractor material that is safety class (Q-1), safety significant (Q-2) or low safety consequence (Q-3) requires receipt inspection. This includes the following items, as a minimum: (see Form 414.02 & 414.70 for details)</p> <p>1) Inspector shall record the following information on the Inspection Report:</p> <p>A) Item description</p> <p>B) VDS item number, as applicable <i>N-A 4/1/03</i></p> <p>C) Quantity inspected</p> <p>D) Serial numbers/unique identifying numbers</p>	N/A
1.0	1/4" Nipples	TPR-6416	Visual / 100%	<p>Verify the following conditions, as applicable</p> <p>1) Damage <i>4-30-03 CER</i></p> <p>2) Cleanliness <i>CER 4-30-03</i></p> <p>3) Protective coating <i>N-A</i></p> <p>4) Markings / identification <i>CER 4-30-03</i></p> <p>5) Dimensional (random) - utilize approved fab drawings, gauge cuts, etc. <i>CER 4-30-03</i></p> <p>6) Surface condition / finish <i>CER 4-30-03</i></p> <p>Record IR number: <i>02 - R 119</i></p>	<i>4-30-03 CER</i>
1.1	Per VDS	TPR-6416	Visual / 100%	<p>Verify that the material is traceable to the associated documentation.</p> <p>Record IR number: <i>021052-R-119</i></p>	<i>4-30-03 CER</i>
1.2	Form 431.53, dated 4/26/03	MCP-3772 / TPR-6416	Verify / 100%	<p>Perform inspections specified on the CGI Forms 431.53, for the items identified on the CGI forms. Document inspections on an IR Form 414.83. <i>See</i></p> <p>Receipt Inspection Log # <i>021052-R-119</i>, and</p> <p>Record IR numbers: <i>432, 41. See Attachments.</i></p>	<i>4-30-03 CER</i>

CONSTRUCTION INSPECTION PLANNING PACKAGE

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P No. 21052-R-07		Rev. 1	Revised 1.1 and 2.1, deleted vendor data requirement.		
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
1.3	Form 431.53, dated 4/26/03	TPR-6416	Verify / 100%	<p>Apply a QC Accept tag to the items, where practical. When this is not feasible, the tag shall be placed with the inspection report for future reference.</p> <p>NOTE: All items accepted shall be uniquely identified to indicate acceptance. This identification shall consist of either placing a tag, where possible or by applying the QA number and initial/date physically on the item with a black indelible marker.</p> <p>(Record IR number and update the Receipt Inspection Database: 021052-R-119)</p>	4-30-03 CEK
2.0	Sheet Metal screws	TPR-6416	Visual / 100%	<p>Verify the following conditions, as applicable:</p> <ol style="list-style-type: none"> 1) Cleanliness <i>CEK 4-29-03</i> 2) Markings / identification <i>CEK 4-29-03</i> 3) Surface condition / finish <i>CEK 4-29-03</i> <p>Record IR number: 021052-R-123</p>	4-30-03 CEK
2.1	Per VDS <i>N/A</i>	TPR-6416	Visual / 100%	<p>Verify that the material is traceable to the associated documentation.</p> <p>Record IR number: 021052-R-123</p>	4-30-03 CEK
2.2	Form 431.53, dated 4/26/03 for Climaseal HMVH-TEKS-5	MCP-3772 / TPR-6416	Verify / 100%	<p>Perform inspections specified on the CGI Forms 431.53, for the items identified on the CGI forms. Document inspections on an IR Form 414.03.</p> <p>Record IR numbers: 021052-R-123</p>	4-30-03 CEK
2.3	Form 431.53, dated 4/26/03	TPR-6416	Verify / 100%	<p>Apply a QC Accept tag to the items, where practical. When this is not feasible, the tag shall be placed with the inspection report for future reference.</p> <p>NOTE: All items accepted shall be uniquely identified to indicate acceptance. This identification shall consist of either placing a tag, where possible or by applying the QA number and initial/date physically on the item with a black indelible marker.</p> <p>Record IR number and update the Receipt Inspection Database: 021052-R-123</p>	4-30-03 CEK
3.0 3.0	Inspection Plan Inspection Plan	ICP-2482	Verify	<p>Verify that all inspections have been completed and forward this inspection plan to the QE for closure.</p>	4-30-03 CEK

CONSTRUCTION INSPECTION PLANNING PACKAGE

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INSPECTION PLAN GENERAL NOTES

- 1) IF ANY ATTRIBUTE IS FOUND TO BE UNSATISFACTORY ON THE CIP, THEN ADDITIONAL INSPECTIONS SHALL BE PERFORMED UNTIL REASONABLE ASSURANCE IS ACHIEVED TO CONFIRM COMPLIANCE WITH THE INSPECTION PLAN REQUIREMENTS.
- 2) ALL INSPECTIONS, EXCEPT WELDING SHALL BE DOCUMENTED ON FORM 414.03, "QUALITY INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP. INSPECTION REPORTS SHALL BE COMPLETED AT LEAST DAILY. ANY IR REQUIRING ACTION SHALL BE FORWARDED TO THE QE FOR RESOLUTION.
- 3) WELDING INSPECTIONS SHALL BE DOCUMENTED ON FORM 414.04 "VISUAL INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP OR ON THE WELD HISTORY RECORDS (FORM 432.43, 432.44 AND 432.45)
- 4) WHEN DOCUMENTING INSPECTIONS, INCLUDE LOCATIONS OR OTHER IDENTIFICATION INFORMATION (HEAT NUMBER, LINE NUMBER, ROOM NUMBER, ETC.) TO PROVIDE TRACEABILITY TO THE ITEM.
- 5) ANY DESIGN CHANGE DOCUMENTS UTILIZED FOR INSPECTION / ACCEPTANCE SHALL ALSO BE DOCUMENTED ON FORM 414.03 OR NOTED ON THE APPLICABLE CIP ATTRIBUTE.
- 6) ATTACH A COPY OF ANY ASSOCIATED DOCUMENTS THAT WILL PROVIDE TRACEABILITY OR CLARIFICATION OF INSPECTIONS PERFORMED (IE: RATCH TICKETS).
- 7) M & TE SERIAL NUMBERS AND CALIBRATION DUE DATES HAVE BEEN RECORDED.
- 8) NCR / DR INFORMATION HAS BEEN RECORDED PER MCP-538 / 598.
- 9) ALL BLANKS HAVE BEEN COMPLETED OR N/A'D.
- 10) WHEN PERFORMING LIQUID PENETRANT EXAMINATION RECORD THE BATCH NUMBERS ON EITHER THE WELD HISTORY RECORD OR THE IR OR THE CIP.
- 11) ALL LINE-OUTS OR WRITE OVERS HAVE BEEN INITIALED AND DATED.
- 12) VERIFY THAT APPLICABLE VDS DOCUMENTS HAVE BEEN APPROVED OR SUBMITTED, AS APPLICABLE, PRIOR TO PERFORMING INSPECTIONS
- 13) INSTALLATION INSPECTIONS SHALL INCLUDE, AS A MINIMUM THE FOLLOWING ATTRIBUTES, AS APPLICABLE TO THE EQUIPMENT BEING INSPECTED:
 - A) ANCHOR BOLT PLACEMENT
 - B) ANCHOR BOLT TORQUE
 - C) LOCATION
 - D) ELEVATION
 - E) ORIENTATION
- 14) INSPECTIONS SHALL INCLUDE VERIFICATION FOR POTENTIALLY SUSPECT / COUNTERFEIT ITEMS PER MCP-9110.
- 15) ALL ATTRIBUTES IN THIS PLAN, EXCEPT THOSE THAT REQUIRE A SPECIFIC QUALIFICATION, (I.E. WELDING, NDE, HYDROSTATIC, PNEUMATIC, ETC.) MAY BE PERFORMED BY QUALIFIED PERSONNEL OTHER THAN A 'GENERAL INSPECTOR'.
- 16) WHEN CONFLICTS ARISE THAT PRECLUDE THE INSPECTOR FROM PERFORMING A VERIFICATION ACTIVITY, THE INSPECTOR IS ALLOWED TO DOCUMENT COMPLETION OF INSPECTION STEPS, BASED ON OBJECTIVE EVIDENCE FROM THE COGIZANT STR OR QE THAT THOSE STEPS HAVE BEEN COMPLETED AS DESCRIBED IN THE INSPECTION PLAN. ATTACH COPIES OF THE OBJECTIVE EVIDENCE TO THIS PLAN.

CONSTRUCTION INSPECTION PLANNING PACKAGE

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Final QE Review:

Date:

WO/SC/PO No. 021052	Requester: Steve Davies	Requester Approval: <i>STEVE DAVIES PER EMAIL</i>	QE: Ron Staymates 4/11/03
Activity/Project Description: OU 7-10 Glovebox Excavator Method Facility (CAULKING/TESTING/TAPING ACTIVITIES)			7/4/03
Floor Structure is safety significant (Q2) / WES is low safety consequence (Q3) / RCS is safety significant (Q2)			Release Date: 4-14-03

IP No. 21052-M-12		Rev. 1	Rev. 1 Clarified responsibility for acceptance of caulk testing and tape activities		
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Reference	Instructions	Complete Initial/Date
				SEE ATTACHED GENERAL NOTES PAGE FOR ADDITIONAL INFORMATION RELATIVE TO THIS INSPECTION.	
1.0	21052-M-01	N/A	Verify	Verify that steps 5.4, 5.5, 5.6 and 5.10 have been N/A'd on Inspection Plan 21052-M-01 and refer to this plan for completion of the activity.	Complete and verified by Ron Staymates 4/11/03
2.0	Statement of Work-541 (copy attached)	Approved Test Procedure and Drawing 519889	Verify 100%	Verify that the specified room joints have been caulked prior to testing. Record inspections on the seam maps and the seam records, MT-1 thru MT-28. (copy attached) Note: Acceptance of the caulk installation shall be determined by Engineering. Record IR number: 021052-M-126	<i>mse</i> 5-6-03
3.0	Statement of Work-541 (copy attached)	Approved Test Procedure and Drawing 519889	Verify 100%	Verify that the specified room joints have been tested. Record inspections on the seam maps and the seam records, MT-1 thru MT-28. (copy attached) Note: Acceptance of the testing and subsequent re-testing shall be determined by Engineering. Record IR number: 021052-M-126	<i>mse</i> 5-6-03
4.0	Statement of Work-541 (copy attached)	Approved Test Procedure and Drawing 519889	Verify 100%	Verify that the specified room joints have been taped after testing. Record inspections on the seam maps and the seam records, MT-1 thru MT-28. (copy attached) Note: Acceptance of the tape installation shall be determined by Engineering. Record IR number: 021052-M-126	<i>mse</i> 5-6-03
5.0	General	MCP-9110	verify Random	Verify that no suspect / counterfeit items have been utilized. Record IR number: 031052-M-126	<i>mse</i> 5-6-03
6.0		MCP-2482	Verify	Verify that all inspections have been completed and forward this inspection plan to the QE for closure.	<i>mse</i> 5-6-03

CONSTRUCTION INSPECTION PLANNING PACKAGE

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INSPECTION PLAN GENERAL NOTES

- 1) IF ANY ATTRIBUTE IS FOUND TO BE UNSATISFACTORY ON THE CIP, THEN ADDITIONAL INSPECTIONS SHALL BE PERFORMED UNTIL REASONABLE ASSURANCE IS ACHIEVED TO CONFIRM COMPLIANCE WITH THE INSPECTION PLAN REQUIREMENTS.
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- 3) WELDING INSPECTIONS SHALL BE DOCUMENTED ON FORM 414.04 "VISUAL INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP OR ON THE WELD HISTORY RECORDS (FORM 432.43, 432.44 AND 432.45)
- 4) WHEN DOCUMENTING INSPECTIONS, INCLUDE LOCATIONS OR OTHER IDENTIFICATION INFORMATION (HEAT NUMBER, LINE NUMBER, ROOM NUMBER, ETC.) TO PROVIDE TRACEABILITY TO THE ITEM.
- 5) ANY DESIGN CHANGE DOCUMENTS UTILIZED FOR INSPECTION / ACCEPTANCE SHALL ALSO BE DOCUMENTED ON FORM 414-03 OR NOTED ON THE APPLICABLE CIP ATTRIBUTE.
- 6) ATTACH A COPY OF ANY ASSOCIATED DOCUMENTS THAT WILL PROVIDE TRACEABILITY OR CLARIFICATION OF INSPECTIONS PERFORMED (IE: BATCH TICKETS).
- 7) MATERIAL SERIAL NUMBERS AND CALIBRATION DUE DATES HAVE BEEN RECORDED.
- 8) NCR / DR INFORMATION HAS BEEN RECORDED PER MCP-538 / 598.
- 9) ALL BLANKS HAVE BEEN COMPLETED OR N/A'D.
- 10) ALL LINE-OUTS OR WRITE OVERS HAVE BEEN INITIALED AND DATED.
- 11) VERIFY THAT APPLICABLE VDS DOCUMENTS HAVE BEEN APPROVED OR SUBMITTED, AS APPLICABLE, PRIOR TO PERFORMING INSPECTIONS.
- 12) INSTALLATION INSPECTIONS SHALL INCLUDE, AS A MINIMUM THE FOLLOWING ATTRIBUTES, AS APPLICABLE TO THE EQUIPMENT BEING INSPECTED:
 - A) ANCHOR BOLT PLACEMENT
 - B) ANCHOR BOLT TORQUE
 - C) LOCATION
 - D) ELEVATION
 - E) ORIENTATION
- 13) INSPECTIONS SHALL INCLUDE VERIFICATION FOR POTENTIALLY SUSPECT / COUNTERFEIT PARTS OR COMPONENTS PER MCP-9110.
- 14) ALL ATTRIBUTES IN THIS PLAN, EXCEPT THOSE THAT REQUIRE A SPECIFIC QUALIFICATION, (I.E. WELDING, NDE, HYDROSTATIC, PNEUMATIC, ETC.) MAY BE PERFORMED BY PERSONNEL QUALIFIED AS A "GENERAL INSPECTOR".

CONSTRUCTION INSPECTION PLANNING PACKAGE

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Final QE Review:

Ron Staymates

Date:

5-7-03

WO/SC/PO No. 021052	Requester: Steve Davies	Requester Approval: <i>STEVE DAVIES PER DWIL 4/26/03</i>	QE: Ron Staymates 4/26/03 <i>RS</i>
Activity/Project Description: OU 7-10 Glovebox Excavator Method Facility Installation Package (DCN FS-84 STAINLESS STEEL DUCT SPOOL PIECE)			Release Date: <i>4/24/03</i>

IP No. 21052-V-03		Rev. 0			
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
1.0	General	TPR-6416	Verify 100%	Verify that Receipt Inspection has been performed on the TEK Screws per 21052-R-07. <i>021052-R-07</i>	<i>4-30-03 CER</i>
2.0	Stainless Steel Duct Material	MCP-9110	Verify Random	Verify that no suspect / counterfeit items have been utilized. <i>021052-R-07, 021052-H-010</i> Record IR number: <i>021052-R-07, 021052-H-010</i>	<i>4-30-03 CER</i>
3.0	Stainless Steel Duct Material	Per VDS	Verify 100%	Verify that the material is traceable to the approved documentation (CMTR's, P.O's, etc.) Record IR number: <i>021052-R-07, 021052-H-010</i>	<i>4-30-03 CER</i>
4.0	General	MCP-2482	Verify	Verify that all inspections have been completed and forward this inspection plan to the QE for closure.	<i>4-30-03 CER</i>

INSPECTION PLAN GENERAL NOTES

* 021052-R-123 *RS 4/1/03*

- IF ANY ATTRIBUTE IS FOUND TO BE UNSATISFACTORY ON THE CIP, THEN ADDITIONAL INSPECTIONS SHALL BE PERFORMED UNTIL REASONABLE ASSURANCE IS ACHIEVED TO CONFIRM COMPLIANCE WITH THE INSPECTION PLAN REQUIREMENTS.
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- WELDING** INSPECTIONS SHALL BE DOCUMENTED ON FORM 414.04, "VISUAL INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP OR ON THE WELD HISTORY RECORDS (FORM 432.43, 432.44 AND 492.45)
- WHEN DOCUMENTING INSPECTIONS, INCLUDE LOCATIONS OR OTHER IDENTIFICATION INFORMATION (HEAT NUMBER, LINE NUMBER, ROOM NUMBER, ETC.) TO PROVIDE TRACEABILITY TO THE ITEM.
- ANY DESIGN CHANGE DOCUMENTS UTILIZED FOR INSPECTION/ACCEPTANCE SHALL ALSO BE DOCUMENTED ON FORM 414.03 OR NOTED ON THE APPLICABLE CIP ATTRIBUTE.
- ATTACH A COPY OF ANY ASSOCIATED DOCUMENTS THAT WILL PROVIDE TRACEABILITY OR CLARIFICATION OF INSPECTIONS PERFORMED (IE: BATCH TICKETS).
- M & TE SERIAL NUMBERS AND CALIBRATION DUE DATES HAVE BEEN RECORDED.
- NCR / OR INFORMATION HAS BEEN RECORDED PER MCP-538 / 598.
- ALL BLANKS HAVE BEEN COMPLETED OR N/A'D.
- ALL LINE-OUTS OR WRITE OVERS HAVE BEEN INITIALED AND DATED.

CONSTRUCTION INSPECTION PLANNING PACKAGE

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- 11) VERIFY THAT APPLICABLE VDS DOCUMENTS HAVE BEEN APPROVED OR SUBMITTED, AS APPLICABLE, PRIOR TO PERFORMING INSPECTIONS
- f2) INSTALLATION INSPECTIONS SHALL INCLUDE, AS A MINIMUM THE FOLLOWING ATTRIBUTES, AS APPLICABLE TO THE EQUIPMENT BEING INSPECTED
 - A) ANCHOR BOLT PLACEMENT
 - B) ANCHOR BOLT TORQUE
 - C) LOCATION
 - D) ELEVATION
 - E) ORIENTATION
- 13) INSPECTIONS SHALL INCLUDE VERIFICATION FOR POTENTIALLY SUSPECT / COUNTERFEIT PARTS OR COMPONENTS PER MCP-9110.
- 14) ALL ATTRIBUTES IN THIS PLAN, EXCEPT THOSE THAT REQUIRE A SPECIFIC QUALIFICATION, (I.E. WELDING, NDE, HYDROSTATIC, PNEUMATIC, ETC.) MAY BE PERFORMED BY PERSONNEL QUALIFIED AS A "GENERAL INSPECTOR".

CONSTRUCTION INSPECTION PLANNING PACKAGE

Final QE Review:

Ron Staymates

Date:

5-7-03

WO/SC/PO No. 021052	Requester: Steve Davies	Requester Approval: <i>SO SLOTT JENSEN PER EMMANUEL</i>	QE: Ron Staymates 4/28/03
Activity/Project Description: OU 7-10 Glovebox Excavator Method Facility Structures			Release Date: 4-28-03
Stack-Low Safety Consequence (G-3)			

P No. 21052-M-19		Rev. 0			
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
				SEE ATTACHED GENERAL NOTES PAGE FOR ADDITIONAL INFORMATION RELATIVE TO THIS INSPECTION. ALL WELDING PROCESSES SHALL BE DOCUMENTED ON FOAMS 432.44 AND 432.45 OR FORM 432.43 OR THE DRAWINGS.	
1.0	Stack Anchor Bolts	N/A	Verify 100%	Randomly select at least two of the existing 1-1/2" anchor bolts in the existing concrete pile cap.	5-1-03 CFR
1.1	Stack Anchor Bolts	N/A	Verify 100%	Verify that <i>the</i> rust was removed from the existing anchor bolts using a wire brush or similar method.	5-1-03 CFR
1.2	Stack Anchor Bolts	N/A	Visual 100%	Visually inspect the anchor bolts and note <i>the</i> existing condition: Record results:	5-1-03 CFR
1.3	Stack Anchor Bolts	N/A	Verify/ 100%	Verify that the anchor bolts and nuts were lubricated with lightweight oil,	5-1-03 CFR
1.4	Stack Anchor Bolts	N/A	Verify 100%	Verify that the nuts were re-installed and torqued to a minimum of 100 ft-lbs using a calibrated torque wrench. Record M & TE Serial number: <u>721006</u> Record Calib. Due Date: <u>Cal Date 2-10-03</u>	5-1-03 CFR

Due Dat 5-10-03

CONSTRUCTION INSPECTION PLANNING PACKAGE

IP No. 21052-M-19		Rev. 0			
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
1.5	Stack Anchor Bolts	N/A	Verify 100% Engineering to Perform	Verify that engineering has performed an evaluation to determine any indications of elongation. Engineering Signature/Date: <i>[Signature]</i> 5/01/03	5-1-03 CFR
2.0		MCP-2482	Verify	Verify that all inspections have been completed and forward this inspection plan to the QE for closure. <i>IR #021052-M-125</i>	5-1-03 CFR

INSPECTION PLAN GENERAL NOTES

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- 2) ALL INSPECTIONS, EXCEPT WELDING SHALL BE **DOCUMENTED ON FORM 414.03, "QUALITY INSPECTION REPORT"** AND ATTACHED TO THE **APPLICABLE CIP**. **INSPECTION REPORTS** SHALL BE COMPLETED AT LEAST DAILY. ANY IR REQUIRING ACTION SHALL BE FORWARDED TO THE QE FOR RESOLUTION.
WELDING INSPECTIONS SHALL BE **DOCUMENTED ON FORM 414.04 "VISUAL INSPECTION REPORT"** AND ATTACHED TO THE APPLICABLE CIP OR ON THE WELD HISTORY RECORDS (FORM 432.43, 432.44 AND 432.45)
- 4) WHEN DOCUMENTING INSPECTIONS, INCLUDE LOCATIONS OR OTHER IDENTIFICATION INFORMATION (HEAT NUMBER, LINE NUMBER, ROOM NUMBER, ETC.) TO PROVIDE **TRACEABILITY TO THE ITEM**.
- 5) ANY **DESIGN** CHANGE DOCUMENTS UTILIZED FOR **INSPECTION / ACCEPTANCE** SHALL ALSO BE DOCUMENTED ON FORM 414.03 OR NOTED ON THE APPLICABLE CIP ATTRIBUTE.
- 6) **ATTACH A COPY OF ANY ASSOCIATED DOCUMENTS THAT WILL PROVIDE TRACEABILITY OR CLARIFICATION OF INSPECTIONS PERFORMED** (IE: BATCH TICKETS).
- 7) **M & TE SERIAL NUMBERS AND CALIBRATION DUE DATES** HAVE BEEN RECORDED.
- 8) NGR / DR INFORMATION HAS BEEN RECORDED PER MCP-538 / 598.
- 9) **ALL BLANKS HAVE BEEN COMPLETED OR N/A'D.**
- 10) **ALL LINE-OUTS OR WRITE OVERS HAVE BEEN INITIALED AND DATED.**
- 11) VERIFY THAT APPLICABLE VDS DOCUMENTS HAVE BEEN APPROVED OR SUBMITTED, AS APPLICABLE, **PRIOR TO PERFORMING INSPECTIONS.**
- 12) **INSTALLATION INSPECTIONS SHALL INCLUDE. AS A MINIMUM THE FOLLOWING ATTRIBUTES, AS APPLICABLE TO THE EQUIPMENT BEING INSPECTED:**
 - A) ANCHOR BOLT PLACEMENT
 - B) ANCHOR BOLT TORQUE
 - C) LOCATION
 - D) ELEVATION
 - E) ORIENTATION
- 13) INSPECTIONS SHALL INCLUDE VERIFICATION FOR POTENTIALLY SUSPECT COUNTERFEIT PARTS OR COMPONENTS PER MCP-9110.
- 14) **ALL ATTRIBUTES IN THIS PLAN, EXCEPT THOSE THAT REQUIRE A SPECIFIC QUALIFICATION, (I.E. WELDING, NDE, HYDROSTATIC, PNEUMATIC, ETC.) MAY BE PERFORMED BY PERSONNEL QUALIFIED AS A "GENERAL INSPECTOR".**

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CONSTRUCTION INSPECTION PLANNING PACKAGE

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~~15) CHECKLIST 414.A16 IS BEING PILOTED IN THIS INSPECTION PLAN (REF. TPR 4921). AND SUBJECT TO CLARIFICATION / REVISION DURING THE~~
~~CONSTRUCTION ACTIVITIES WITH THE APPROVAL OF THE GE AND THERE.~~ *Rf 4/28/03 NOT APPLICABLE TO THIS INSPECTION PLAN*

CONSTRUCTION INSPECTION PLANNING PACKAGE

Final QE Review:

Date: 5-14-03

WO/SC/PO No. 021052	Requester: Steve Davies	Requester Approval: KAREN SHARP-SHIRE PER EMAIL	QE: Ron Staymates 4/11/03
Activity/Project Description: OU 7-10 Glovebox Excavator Method Facility (SS DIMENSIONS)			Release Date: 4-11-03
Floor Structure is safety significant (Q2) / WES is low safety consequence (Q3) / RCS is safety significant (Q2)			

IP No. 21052-M-16		Rev. 0			
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
				SEE ATTACHED GENERAL NOTES PAGE FOR ADDITIONAL INFORMATION RELATIVE TO THIS INSPECTION.	
1.0	Drum Sizing Tray	Drawing 522668 & DCN FP-7	Verify 100%	Verify that the drum-sizing tray has an inside height no more than 8 in. and the inside height of each of the remaining sides not more than 18 in. The inside length and width will be designed not to exceed 50 by 62 in. Record IR number: 021052-M-131	5-13-03 CER
2.0	PGS Drive Cart & PGS Auxiliary Cart	Drawing 522030 & 522032	Verify 100%	Verify that the transfer cart is no more than 8 in. high with an inside length and width not exceeding 50 by 62 in. Record IR number: 021052-M-131	5-13-03 CER
3.0	FMM Material Bucket	N/A	Verify 100%	Verify that the volume of the fissile monitor specimen container is limited to no more than 20.8 L (5.5 gal) = 1270.5 cubic inches. Record IR number: 021052-M-131	5-13-03 CER
4.0		MCP-2482	Verify	Verify that all inspections have been completed and forward this inspection plan to the QE for closure.	5-13-03 CER

INSPECTION PLAN GENERAL NOTES

- IF ANY ATTRIBUTE IS FOUND TO BE UNSATISFACTORY ON THE CIP, THEN ADDITIONAL INSPECTIONS SHALL BE PERFORMED UNTIL REASONABLE ASSURANCE IS ACHIEVED TO CONFIRM COMPLIANCE WITH THE INSPECTION PLAN REQUIREMENTS.
- ALL INSPECTIONS, EXCEPT WELDING SHALL BE DOCUMENTED ON FORM 414.03, 'QUALITY INSPECTION REPORT' AND ATTACHED TO THE APPLICABLE CIP. INSPECTION REPORTS SHALL BE COMPLETED AT LEAST DAILY. ANY IR REQUIRING ACTION SHALL BE FORWARDED TO THE QE FOR RESOLUTION.
- WELDING INSPECTIONS SHALL BE DOCUMENTED ON FORM 414.04 "VISUAL INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP OR ON THE WELD HISTORY RECORDS (FORM 432.43, 432.44 AND 432.45)
- WHEN DOCUMENTING INSPECTIONS, INCLUDE LOCATIONS OR OTHER IDENTIFICATION INFORMATION (HEAT NUMBER, LINE NUMBER, ROOM NUMBER, ETC.) TO PROVIDE TRACEABILITY TO THE ITEM.
- ANY DESIGN CHANGE DOCUMENTS UTILIZED FOR INSPECTION / ACCEPTANCE SHALL ALSO BE DOCUMENTED ON FORM 414.03 OR NOTED ON THE APPLICABLE CIP ATTRIBUTE.

CONSTRUCTION INSPECTION PLANNING PACKAGE

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- 6) ATTACH A COPY OF ANY ASSOCIATED DOCUMENTS THAT WILL PROVIDE TRACEABILITY OR CLARIFICATION OF INSPECTIONS PERFORMED (IE: BATCH TICKETS).
- 7) M & TE SERIAL NUMBERS AND CALIBRATION DUE DATES HAVE BEEN RECORDED.
- 8) NCR / DR INFORMATION HAS BEEN RECORDED PER MCP-538 / 598.
- 9) ALL BUNKS HAVE BEEN COMPLETED OR N/A'D.
- 10) ALL LINE-OUTS OR WRITE OVERS HAVE BEEN INITIALED AND DATED.
- 11) VERIFY THAT APPLICABLE VDS DOCUMENTS HAVE BEEN APPROVED OR SUBMITTED, AS APPLICABLE, PRIOR TO PERFORMING INSPECTIONS.
- 12) INSTALLATION INSPECTIONS SHALL INCLUDE, AS A MINIMUM THE FOLLOWING ATTRIBUTES, AS APPLICABLE TO THE EQUIPMENT BEING INSPECTED:
 - A) ANCHOR BOLT PLACEMENT
 - B) ANCHOR BOLT TORQUE
 - C) LOCATION
 - D) ELEVATION
 - E) ORIENTATION
- 13) INSPECTIONS SHALL INCLUDE VERIFICATION FOR POTENTIALLY SUSPECT / COUNTERFEIT PARTS OR COMPONENTS PER MCP-9110.
- 14) ALL ATTRIBUTES IN THIS PLAN, EXCEPT THOSE THAT REQUIRE A SPECIFIC QUALIFICATION, (IE. WELDING, NDE, HYDROSTATIC, PNEUMATIC, ETC.) MAY BE PERFORMED BY PERSONNEL QUALIFIED AS A "GENERAL INSPECTOR".
- 15) CHECKLIST 414.A15 IS BEING PILOTTED IN THIS INSPECTION PLAN (REF. TPR-4921). AND SUBJECT TO CLARIFICATION / REVISION DURING THE CONSTRUCTION ACTIVITIES WITH THE APPROVAL OF THE QE AND THE RE.

09/08/97
Rev. #01

CONSTRUCTION INSPECTION PLANNING PACKAGE

1120-001
7th Edition

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Final QE Review:

[Signature]

Date:

5/12/03

WO/SC/PO No. 021052	Requester: Steve Davies	Requester Approval: <i>STEVE DAVIES PER EXHIBIT</i>	QE: Ron Staymates 4/30/03 <i>RS</i>
Activity/Project Description: OU 7-10 Glovebox Excavator Method Facility (TOOL TABLE) Floor Structure is safety significant (Q2) / WES is low safety consequence (Q3) / RCS is safety significant (Q2) <i>4/30/03</i>			Release Date: 4/30/03

P NO. 21052-S-15			Rev. 0		
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
				SEE ATTACHED GENERAL NOTES PAGE FOR ADDITIONAL INFORMATION RELATIVE TO THIS INSPECTION. ALL SAFETY SIGNIFICANT AND LOW SAFETY CONSEQUENCE WELDING PROCESSES SHALL BE DOCUMENTED ON FORMS 432.44 AND 432.45 OR FORM 432.43 OR THE DRAWINGS.	
1.0	Structural Steel and Misc. Metal	5100 and Drawing S-24	Verify 00%	Verify that the welders are qualified to perform the welding process and have a current qualification. Record IR number: <i>021052-S-129</i>	<i>5-12-03</i> <i>CER</i>
1.1	Structural Steel and Misc. Metal	5100 and Drawing S-24	Verify 00%	Verify that the filler metal is the correct type per the WPS and that it is traceable to a typical CMTR. Record IR number: <i>021052-S-129</i>	<i>5-12-03</i> <i>CER</i>
1.2	Structural Steel and Misc. Metal	5100 and Drawing S-24	Verify 00%	Verify that the welding process is being performed in accordance with the parameters defined in the WPS, including the following: a) base metal preparation <i>CER 5-12-03</i> b) cleaning <i>CER 5-12-03</i> c) preheat temperature <i>N/A</i> d) interpass temperature <i>N/A</i> e) temporary welds <i>N/A</i> f) backing strips/runoff tabs <i>N/A</i> g) joint preparation <i>CER 5-12-03</i> Record IR number: <i>021052-S-129</i>	<i>5-12-03</i> <i>CER</i>
	and Misc. Metal	Drawing S-24	Verify 00%	Verify that arc strikes have been ground to a smooth contour but no more than 1/32 in. of base metal shall be removed. Arc strikes exceeding more than 1/32 in. into the base metal shall be considered as a weld defect and repaired as specified. Record IR number: <i>021052-S-129</i>	<i>5-12-03</i> <i>CER</i>

O-135

IP NO. 21052-S-15		Rev. 0			
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
1.4	Structural Steel and Misc. Metal	5100 and Drawing S-24	TPR-4981, Appendix D Visual 100% Static Loaded HOLD POINT	Visually inspect welds per AWS D1.6 (Copy Attached). Record IR Number: <u>021052-S-129</u>	<u>100%</u> <u>5-12-03</u> <u>CEK</u>
2.0	Structural Steel and Misc. Metal	MCP-9110	Verify Random	Verify that no suspect / counterfeit items have been utilized. Record IR number: <u>021052-S-129</u>	<u>5-12-03</u> <u>CEK</u>
4.0		MCP-2482	Verify	Verify that all inspections have been completed and forward this inspection plan to the QE for closure.	<u>5-12-03</u> <u>CEK</u>

INSPECTION PLAN GENERAL NOTES

- 1) IF ANY ATTRIBUTE IS FOUND TO BE UNSATISFACTORY ON THE CIP, THEN ADDITIONAL INSPECTIONS SHALL BE PERFORMED UNTIL REASONABLE ASSURANCE IS ACHIEVED TO CONFIRM COMPLIANCE WITH THE INSPECTION PLAN REQUIREMENTS.
- 2) ALL INSPECTIONS, EXCEPT WELDING SHALL BE DOCUMENTED ON FORM 414.03, "QUALITY INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP. INSPECTION REPORTS SHALL BE COMPLETED AT LEAST DAILY. ANY IR REQUIRING ACTION SHALL BE FORWARDED TO THE QE FOR RESOLUTION.
- 3) WELDING INSPECTIONS SHALL BE DOCUMENTED ON FORM 414.04 "VISUAL INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP OR ON THE WELD HISTORY RECORDS (FORM 432.43, 432.44 AND 432.45)
- 4) WHEN DOCUMENTING INSPECTIONS, INCLUDE LOCATIONS OR OTHER IDENTIFICATION INFORMATION (HEAT NUMBER, LINE NUMBER, ROOM NUMBER, ETC.) TO PROVIDE TRACEABILITY TO THE ITEM
- 5) ANY DESIGN CHANGE DOCUMENTS UTILIZED FOR INSPECTION/ ACCEPTANCE SHALL ALSO BE DOCUMENTED ON FORM 414.03 OR NOTED ON THE APPLICABLE CIP ATTRIBUTE.
- 6) ATTACH A COPY OF ANY ASSOCIATED DOCUMENTS THAT WILL PROVIDE TRACEABILITY OR CLARIFICATION OF INSPECTIONS PERFORMED (IE: BATCH TICKETS).
- 7) MATERIAL SERIAL NUMBERS AND CALIBRATION DUE DATES HAVE BEEN RECORDED.
- 8) NCR / DR INFORMATION HAS BEEN RECORDED PER MCP-538 / 598.
- 9) ALL BUNKS HAVE BEEN COMPLETED OR N/A'D.
- 10) ALL LINE-CUTS OR WRITE OVERS HAVE BEEN INITIALED AND DATED.
- 11) VERIFY THAT APPLICABLE VDS DOCUMENTS HAVE BEEN APPROVED OR SUBMITTED, AS APPLICABLE, PRIOR TO PERFORMING INSPECTIONS.
- 12) INSTALLATION INSPECTIONS SHALL INCLUDE, AS A MINIMUM THE FOLLOWING ATTRIBUTES, AS APPLICABLE TO THE EQUIPMENT BEING INSPECTED:
 - A) ANCHOR BOLT PLACEMENT
 - B) ANCHOR BOLT TORQUE
 - C) LOCATION
 - D) ELEVATION
 - E) ORIENTATION
- 13) INSPECTIONS SHALL INCLUDE VERIFICATION FOR POTENTIALLY SUSPECT / COUNTERFEIT PARTS OR COMPONENTS PER MCP-9110.

- 14) ALL ATTRIBUTES IN THIS PLAN, EXCEPT THOSE THAT REQUIRE A SPECIFIC QUALIFICATION, (I.E. WELDING, NDE, HYDROSTATIC, PNEUMATIC, ETC.) MAY BE PERFORMED BY PERSONNEL QUALIFIED AS A "GENERAL INSPECTOR".

CONSTRUCTION INSPECTION LANNING PACKAGE

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22-0358015 LMIT

Final QE Review: Ray Stymur Date: 4-11-03

WO/SC/PO No. 021052	Requester: Steve Daves	Requester Approval: <u>Scott Jensen Per Form 432.45</u>	Requester: Ron Staynates 2/25/03
Activity/Project Description: OU 7-10 Glovebox Excavator Method Facility (DCN FP 47 SEAL WELD and CGI ACTIVITIES)			Release Date: <u>2/26/03</u>
1-floor Structure is safety significant (Q2) / WES is low safety consequence (Q3) / RCS is safety significant (Q2)			

P No. 21052-M-13		Rev. 0		
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions
				SEE ATTACHED GENERAL NOTES PAGE FOR ADDITIONAL INFORMATION RELATIVE TO THIS INSPECTION.
				ALL SAFETY SIGNIFICANT AND LOW SAFETY CONSEQUENCE WELDING PROCESSES SHALL BE DOCUMENTED ON FORMS 432.44 AND 432.45 CR FORM 432.43 OR THE DRAWINGS.
N/A	N/A	N/A	N/A	Material that is safety class (Q-1), safety significant (Q-2) or low safety consequence (Q-3) requires receipt inspection. This includes the following items, as a minimum: (see Form 414.02 & 414.70 for details)
				1) Inspector shall record the following information on the inspection Report: A) Item description B) VDS item number, as applicable C) Quantity inspected D) Serial numbers/unique identifying numbers

CONSTRUCTION INSPECTIO. LANNING PACKAGE

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IP No. 21052-M-13	Rev. 0				
	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
1.0	Per Form 431.52 for Part Number RRC-8, dated 2/24/03 (copy attached)	TPR-6416	Visual / 100%	Verify the following conditions, as applicable 1) Damage <i>CEL 4-7-03</i> 2) Cleanliness <i>CEL 4-7-03</i> 3) protective coating <i>N/A</i> 4) markings / identification <i>CEL 4-7-03</i> 5) dimensional (random) - utilize approved fab drawings, catalogue cuts, etc <i>CEL</i> 6) surface condition / finish <i>CEL 4-7-03</i> 7) weld appearance <i>CEL 4-7-03</i> 8) end protection <i>CEL 4-7-03</i> 9) end preparation <i>CEL 4-7-03</i> 10) storage level & segregation per MCP-9436 (this is not an accept/reject attribute. If material is not being segregated, document on an IR and forward the IR to the QE) <i>CEL 4-7-03</i> IR number: <i>021052-M-108</i>	<i>4-7-03</i> <i>CEL</i>
1.1	Per Form 431.53 for Part Number RRC-8, dated 2/24/03 (copy attached)	MCP-3772 / TPR-6416	Verify / 100%	Perform inspections specified on the CGI Forms 431.53, for the items identified on the CGI forms. Document inspections on an IR Form 414.03. Record IR numbers: <i>021052-M-108</i>	<i>4-7-03</i> <i>CEL</i>
1.2	Per Form 431.53 for Part Number RRC-8, dated 2/24/03 (copy attached)	TPR-6416	Verify / 100%	Apply a QC Accept tag to the items, where practical. When this is not feasible, the tag shall be placed with the inspection report for future reference. NOTE: All items accepted shall be uniquely identified to indicate acceptance. This identification shall consist of either placing a tag, where possible or by applying the QA number and initial/date physically on the item with a black indelible marker.	<i>4-7-03</i> <i>CEL</i>
2.0	General	TPR-6416	Verify 100%	Verify that Receipt Inspection has been performed per 21052-R-02 on the items being inspected. <i>See NCR 30624</i>	<i>4-7-03</i> <i>CEL</i>
3.0	Seal Welds	DCN FP-47	Verify 100%	Verify that the welders are qualified to perform the welding process and have a current qualification. Record IR number: <i>021052-M-108</i>	<i>4-7-03</i> <i>CEL</i>
3.1	Seal Welds	DCN FP-47	Verify 100%	Verify that the filler metal is the correct type per the WPS and that it is traceable to a typical CMTR. Record IR number: <i>021052-M-108</i>	<i>4-7-03</i> <i>CEL</i>

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CONSTRUCTION INSPECTIO. LANNING PACKAGE

IP No. 21052-M-13		Rev. 0			
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
3.2	Seal Welds	DCN FP-47	Verify 100%	Verify that the welding process is being performed in accordance with the parameters defined in the WPS, including the following: a) base metal preparation <i>CEK 4-7-03</i> b) <i>ing CEK 4-7-03</i> c) preheat temperature <i>N/A</i> d) interpass temperature <i>N/A</i> e) temporary welds <i>N/A</i> f) backing strips/runoff tabs <i>N/A</i> g) joint preparation <i>CEK 4-7-03</i> Record IR number: <i>021052-M-108</i> <i>See NCR 30624</i>	<i>4-7-03</i> <i>CEK</i>
3.4	Seal Welds	DCN FP-47	Verify 100%	Verify that arc strikes have been ground to a smooth contour but no more than 1/32 in. of base metal shall be removed. Arc strikes exceeding more than 1/32 in. into the base metal shall be considered as a weld defect and repaired as specified. Record IR number: <i>021052-M-108</i>	<i>4-7-03</i> <i>CEK</i>
3.5	RCS Seal Welds	Drawing E-22, LSS-6, FCR 13233-61 and DCN-FP-18	TPR-4981 Visual 100% Static Loaded HOLD POINT	Visually inspect welds per AWS D1.6. (copy attached) NOTE: Weld size is not applicable for this inspection, only the weld quality is critical. Record IR Number: <i>021052-M-108</i>	<i>4-7-03</i> <i>CEK</i>
4.0	Structural Steel and Misc. Metal	MCP-9110	Verify Random	Verify that no suspect / counterfeit items have been utilized. Record IR number: <i>021052-M-108</i>	<i>4-7-03</i> <i>CEK</i>
5.0	General	MCP-9436 App. A, B & C	Verify Random Checklist 414.A33	Verify that materials / items are segregated based on quality level, with no commingling of quality levels. Record IR number: <i>021052-M-108</i>	<i>4-7-03</i> <i>CEK</i>
5.1	General	MCP-9436 App. A, 6 & C And STD-7006	Verify Random Checklist 414.A33	Verify that traceability markings (QA numbers, heat numbers, etc.) are transferred when material is subdivided. (transfer can be by marking, tagging or other unique identifier) Record IR number: <i>021052-M-108</i>	<i>4-7-03</i> <i>CEK</i>
6.0		MCP-2482	Verify	Verify that all inspections have been completed and forward this inspection plan to the QE for closure. <i>See NCR 30624</i>	<i>4-7-03</i> <i>CEK</i>

INSPECTION PLAN GENERAL NOTES

- IF ANY ATTRIBUTE IS FOUND TO BE UNSATISFACTORY ON THE CIP, THEN ADDITIONAL INSPECTIONS SHALL BE PERFORMED UNTIL REASONABLE ASSURANCE IS ACHIEVED TO CONFIRM COMPLIANCE WITH THE INSPECTION PLAN REQUIREMENTS.

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- 2) ALL INSPECTIONS, EXCEPT WELDING SHALL BE DOCUMENTED ON FORM 414.03, "QUALITY INSPECTION REPORT AND ATTACHED TO THE APPLICABLE CIP. INSPECTION REPORTS SHALL BE COMPLETED AT LEAST DAILY. ANY IR REQUIRING ACTION SHALL BE FORWARDED TO THE QE FOR RESOLUTION.
- 3) WELDING INSPECTIONS SHALL BE DOCUMENTED ON FORM 414.04 "VISUAL INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP OR ON THE WELD HISTORY RECORDS (FORM 432.43, 432.44 AND 432.45)
- 4) WHEN DOCUMENTING INSPECTION, INCLUDE LOCATIONS OR OTHER IDENTIFICATION INFORMATION (HEAT NUMBER, LINE NUMBER, ROOM NUMBER, ETC.) TO PROVIDE TRACEABILITY TO THE ITEM.
- 5) ANY DESIGN CHANGE DOCUMENTS UTILIZED FOR INSPECTION / ACCEPTANCE SHALL ALSO BE DOCUMENTED ON FORM 414.03 OR NOTED ON THE APPLICABLE CIP ATTRIBUTE.
- 6) ATTACH A COPY OF ANY ASSOCIATED DOCUMENTS THAT WILL PROVIDE TRACEABILITY OR CLARIFICATION OF INSPECTIONS PERFORMED (IE: BATCH TICKETS).
- 7) M & TE SERIAL NUMBERS AND CALIBRATION DUE DATES HAVE BEEN RECORDED.
- 8) NCR / DR INFORMATION HAS BEEN RECORDED PER MCP-538 / 598.
- 9) ALL BLANKS HAVE BEEN COMPLETED OR NIA'D.
- 10) ALL LINE-OUTS OR WRITE OVERS HAVE BEEN INITIALED AND DATED.
- 11) VERIFY THAT APPLICABLE VDS DOCUMENTS HAVE BEEN APPROVED OR SUBMITTED, AS APPLICABLE, PRIOR TO PERFORMING INSPECTIONS.
- 12) INSTALLATION INSPECTIONS SHALL INCLUDE, AS A MINIMUM THE FOLLOWING ATTRIBUTES, AS APPLICABLE TO THE EQUIPMENT BEING INSPECTED:
 - A) ANCHOR BOLT PLACEMENT
 - B) ANCHOR BOLT TORQUE
 - C) LOCATION
 - D) ELEVATION
 - E) ORIENTATION
- 13) INSPECTIONS SHALL INCLUDE VERIFICATION FOR POTENTIALLY SUSPECT / COUNTERFEIT PARTS OR COMPONENTS PER MCP-9110
- 14) ALL ATTRIBUTES IN THIS PLAN. EXCEPT THOSE THAT REQUIRE A SPECIFIC QUALIFICATION. (IE. WELDING, NDE, HYDROSTATIC, PNEUMATIC, ETC.) MAY BE PERFORMED BY PERSONNEL QUALIFIED AS A "GENERAL INSPECTOR..

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CONSTRUCTION INSPECTION PLANNING PACKAGE

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Final QE Review:

Date: 4-9-03

WO/SC/PO No. 021052	Requester: Steve Davies	Requester Approval: STEVE DAVIES PER EMAIL	QE: Ron Staymates 3/3/03
Activity/Project Description: OU 7-10 Glovebox Excavator Method Facility (DCN FP-52 ACTIVITIES)			3/5/03
Floor Structure is safety significant (Q2) / WES is low safety consequence (Q3) / RCS is safety significant (Q2)			Release Date: 3/5/03

P No. 21052-M-14		Rev. 0			
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
				SEE ATTACHED GENERAL NOTES PAGE FOR ADDITIONAL INFORMATION RELATIVE TO THIS INSPECTION. ALL SAFETY SIGNIFICANT AND LOW SAFETY CONSEQUENCE WELDING PROCESSES SHALL BE DOCUMENTED ON FORMS 432.44 AND 432.45 OR FORM 432.43 OR THE DRAWINGS.	
1.0	Structural Steel and Misc. Metals Number 1	DCN FP-52	Verify 100%	Verify that ASTM A-325 bolts are utilized and a C of C was provided for the bolts. Record IR number: 021052-M-107	4-7-03 CER
1.1	Structural Steel and Misc. Metals Glovebox Number 1	DCN FP-52	Verify 100%	Verify that the bolts have been installed per the DCN. Record IR number: 021052-M-107	4-7-03 CER
1.2	Structural Steel and Misc. Metals Glovebox Number 1	DCN FP-52	Verify 100%	Verify that any unused holes are caulked per the DCN. Record IR number: 021052-M-107	4-7-03 CER
2.0	Structural Steel and Misc. Metals Glovebox Number 2	DCN FP-52	Verify 100%	Verify that ASTM A-325 bolts are utilized and a C of C was provided for the bolts. Record IR number: 021052-M-107 See VDS # 214 VDR # 47732	4-7-03 CER

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IP No. 21052-M-14		Rev. 0			
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
2.1	Structural Steel	DCN FP-52	Verify 100%	Verify that the bolts have been installed per the DCN. Record IR number: 021052-M-107	4-7-03 CEK
		DCN FP-52	Verify 100%	Verify that any unused holes are caulked per the DCN. Record IR number: 021052-M-107	4-7-03 CEK
		DCN FP-52	Verify 100%	Verify that ASTM A-325 bolts are utilized and a C of C was provided for the bolts. Record IR number: 021052-M-107	4-7-03 CEK
	Number 3				
3.1	Structural Steel and Misc. Metals	DCN FP-52	Verify 100%	Verify that the bolts have been installed per the DCN. Record IR number: 021052-M-107	4-7-03 CEK
	Glovebox Number 3				
3.2	Structural Steel and Misc. Metals	DCN FP-52	Verify 100%	Verify that any unused holes are caulked per the DCN. Record IR number: 021052-M-107	4-7-03 CEK
	Glovebox Number 3				
4.0	General	MCP-9110	Verify Random	Verify that no suspect / counterfeit items have been utilized. Record IR number: 021052-M-107	4-7-03 CEK
5.0		MCP-2482	Verify	Verify that all inspections have been completed and forward this inspection plan to the QE for closure. 021052-M-107	4-7-03 CEK

INSPECTION PLAN GENERAL NOTES

- 1) IF ANY ATTRIBUTE IS FOUND TO BE UNSATISFACTORY ON THE CIP, THEN ADDITIONAL INSPECTIONS SHALL BE PERFORMED UNTIL REASONABLE ASSURANCE IS ACHIEVED TO CONFIRM COMPLIANCE WITH THE INSPECTION PLAN REQUIREMENTS.
- 2) ALL INSPECTIONS, EXCEPT WELDING SHALL BE DOCUMENTED ON FORM 414.03, "QUALITY INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP. INSPECTION REPORTS SHALL BE COMPLETED AT LEAST DAILY. ANY IR REQUIRING ACTION SHALL BE FORWARDED TO THE QE FOR RESOLUTION.

CONSTRUCTION INSPECTION PLANNING PACKAGE

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- 3) WELDING INSPECTIONS SHALL BE DOCUMENTED ON FORM 414.04 "VISUAL INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP OR ON THE WELD HISTORY RECORDS (FORM 432.43, 432.44 AND 432.45)
- 4) WHEN DOCUMENTING INSPECTIONS, INCLUDE LOCATIONS OR OTHER IDENTIFICATION INFORMATION (HEAT NUMBER, LINE NUMBER, ROOM NUMBER, ETC.) TO PROVIDE TRACEABILITY TO THE ITEM.
- 5) ANY DESIGN CHANGE DOCUMENTS UTILIZED FOR INSPECTION/ ACCEPTANCE SHALL ALSO BE DOCUMENTED ON FORM 414.03 OR NOTED ON THE APPLICABLE CIP ATTRIBUTE.
- 6) ATTACH A COPY OF ANY ASSOCIATED DOCUMENTS THAT WILL PROVIDE TRACEABILITY OR CLARIFICATION OF INSPECTIONS PERFORMED (IE: BATCH TICKETS).
- 7) MATERIAL SERIAL NUMBERS AND CALIBRATION DUE DATES HAVE BEEN RECORDED.
- 8) NCR / DR INFORMATION HAS BEEN RECORDED PER MCP-538 / 598.
- 9) ALL BLANKS HAVE BEEN COMPLETED OR N/A'D.
- 10) ALL LINE-OUTS OR WRITE OVERS HAVE BEEN INITIALED AND DATED.
- 11) VERIFY THAT APPLICABLE VDS DOCUMENTS HAVE BEEN APPROVED OR SUBMITTED, AS APPLICABLE, PRIOR TO PERFORMING INSPECTIONS.
- 12) INSTALLATION INSPECTIONS SHALL INCLUDE, AS A MINIMUM THE FOLLOWING ATTRIBUTES, AS APPLICABLE TO THE EQUIPMENT BEING INSPECTED:
 - A) ANCHOR BOLT PLACEMENT
 - B) ANCHOR BOLT TORQUE
 - C) LOCATION
 - D) ELEVATION
 - E) ORIENTATION
- 13) INSPECTIONS SHALL INCLUDE VERIFICATION FOR POTENTIALLY SUSPECT / COUNTERFEIT PARTS OR COMPONENTS PER MCP-9110.
- 14) ALL ATTRIBUTES IN THIS PLAN, EXCEPT THOSE THAT REQUIRE A SPECIFIC QUALIFICATION (IE. WELDING, NDE, HYDROSTATIC, PNEUMATIC, ETC.) MAY BE PERFORMED BY PERSONNEL QUALIFIED AS A GENERAL INSPECTOR.

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CONSTRUCTION INSPECTION: ANNING PACKAGE

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Final QE Review: *[Signature]*

Date: 4-7-03

WO/SC/PO No. 021052	Requester: Steve Davies	Requester Approval: <i>STEVE DAVIES PER EMAIL</i>	QE: Ron Staymates 3/3/03 <i>RB</i>
Activity/Project Description: OU 7-10 Glovebox Excavator Method Facility (FCR 13233-137 GASKET REPAIR) Floor Structure is safety significant (Q2) / WES is low safety consequence (Q3) / RCS is safety significant (Q2) <i>3/5/03</i>			Release Date: <i>3/5/03</i>

IP No. 21052-M-15		Rev. 0			
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
				SEE ATTACHED GENERAL NOTES PAGE FOR ADDITIONAL INFORMATION RELATIVE TO THIS INSPECTION. ALL SAFETY SIGNIFICANT AND LOW SAFETY CONSEQUENCE WELDING PROCESSES SHALL BE DOCUMENTED ON FORMS 432.44, AND 432.45 OR FORM 432.43 OR THE DRAWINGS.	
1.0	Gasket	FCR 13233-137 Sketch #1	Verify 100%	Verify that the gasket has been cut in all four corners per the FCR. Record IR number: <i>021052-M-101</i>	<i>CER</i> <i>3-20-03</i>
2.0	Gasket	FCR 13233-137 Sketch #2	Verify 100%	Verify that the gasket has been cut in all four corners per the FCR. Record IR number: <i>021052-M-101</i>	<i>3-20-03</i> <i>CER</i>
3.0		MCP-2482	Verify	Verify that all inspections have been completed and forward this inspection plan to the QE for closure.	<i>3-20-03</i> <i>CER</i>

INSPECTION PLAN GENERAL NOTES

- IF ANY ATTRIBUTE IS FOUND TO BE UNSATISFACTORY ON THE CIP, THEN ADDITIONAL INSPECTIONS SHALL BE PERFORMED UNTIL REASONABLE ASSURANCE IS ACHIEVED TO CONFIRM COMPLIANCE WITH THE INSPECTION PLAN REQUIREMENTS.
- ALL INSPECTIONS, EXCEPT WELDING SHALL BE DOCUMENTED ON FORM 414.09, "QUALITY INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP. INSPECTION REPORTS SHALL BE COMPLETED AT LEAST DAILY, ANY IR REQUIRING ACTION SHALL BE FORWARDED TO THE QE FOR RESOLUTION.
- WELDING INSPECTIONS SHALL BE DOCUMENTED ON FORM 414.04 "VISUAL INSPECTION REPORT AND ATTACHED TO THE APPLICABLE CIP OR ON THE WELD HISTORY RECORDS (FOAM 432.43, 432.44 AND 432.45)
- WHEN DOCUMENTING INSPECTIONS, INCLUDE LOCATIONS OR OTHER IDENTIFICATION INFORMATION (HEAT NUMBER, LINE NUMBER, ROOM NUMBER, ETC.) TO PROVIDE TRACEABILITY TO THE ITEM,
- ANY DESIGN CHANGE DOCUMENTS UTILIZED FOR INSPECTION / ACCEPTANCE SHALL ALSO BE DOCUMENTED ON FORM 414.03 OR NOTED ON THE APPLICABLE CIP ATTRIBUTE.
- ATTACH A COPY OF ANY ASSOCIATED DOCUMENTS THAT WILL PROVIDE TRACEABILITY OR CLARIFICATION OF INSPECTIONS PERFORMED (IE BATCH TICKETS).

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- 7) M & TE SERIAL NUMBERS AND CALIBRATION DUE DATES HAVE BEEN RECORDED.
- 8) NCR / DR INFORMATION HAS BEEN RECORDED PER MCP-538 / 588.
- 9) ALL BLANKS HAVE BEEN COMPLETED OR N/A'D.
- 10) ALL LINE-OUTS OR WRITE OVERS HAVE BEEN INITIALED AND DATED.
- 11) VERIFY THAT APPLICABLE VDS DOCUMENTS HAVE BEEN APPROVED OR SUBMITTED, AS APPLICABLE, PRIOR TO PERFORMING INSPECTIONS.
- 12) INSTALLATION INSPECTIONS SHALL INCLUDE, AS A MINIMUM THE FOLLOWING ATTRIBUTES, AS APPLICABLE TO THE EQUIPMENT BEING INSPECTED:
 - A) ANCHOR BOLT PLACEMENT
 - B) ANCHOR BOLT TORQUE
 - C) LOCATION
 - D) ELEVATION
 - E) ORIENTATION
- 13) INSPECTIONS SHALL INCLUDE VERIFICATION FOR POTENTIALLY SUSPECT / COUNTERFEIT PARTS OR COMPONENTS PER MCP-9110.
- 14) ALL ATTRIBUTES IN THIS PLAN, EXCEPT THOSE THAT REQUIRE A SPECIFIC QUALIFICATION, (I.E. WELDING, NDE, HYDROSTATIC, PNEUMATIC, EXG.) MAY BE PERFORMED BY PERSONNEL QUALIFIED AS A "GENERAL INSPECTOR".

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CONSTRUCTION INSPECTION ANNING PACKAGE

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Final QI Review:

Date: 4-7-03

WO/SC/PO No. 021052	Requester: Steve Davies	Requester Approval: <i>STEVE DAVIES</i>	GE: Ron Staymates 3/13/03 <i>RP</i>
Activity/Project Description: OU 7-10 Glovebox Excavator Method Facility (FCN-153 KEEPER CLIP INSTALLATION)			Release Date: 3/24/03
Floor Structure is safety significant (Q2) / WES is low safety consequence (Q3) / RCS is safety significant (Q2)			

No. 21052-0-10		Rev. 0			
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
				SEE ATTACHED GENERAL NOTES PAGE FOR ADDITIONAL INFORMATION RELATIVE TO THIS INSPECTION. ALL SAFETY SIGNIFICANT AND LOW SAFETY CONSEQUENCE WELDING PROCESSES SHALL BE DOCUMENTED ON FORMS 432.44 AND 432.45 OR FORM 432.43 OR THE DRAWINGS.	
1.0	Shim Stock	FCN-13233-153	Verify 100%	Verify that the shim stock is safety significant and traceable to associated documentation. Record IR number: <i>021052-S-103</i>	<i>3-22-03</i> <i>CER</i>
2.0	Structural Steel and Misc. Metal	FCN-13233-153	Verify 100%	Verify that the welders are qualified to perform the welding process and have a current qualification. Record IR number: <i>021052-S-103</i>	<i>3-22-03</i> <i>CER</i>
2.1	Structural Steel and Misc. Metal	FCN-13233-153	Verify 100%	Verify that the filler metal is the correct type per the WPS and that it is traceable to a typical CMTH. Record IR number: <i>021052-S-103</i>	<i>3-27-03</i> <i>CER</i>
2.2	Structural Steel and Misc. Metal	FCN-13233-153	Verify 100%	Verify that the welding process is being performed in accordance with the parameters defined in the WPS, including the following: a) base metal preparation <i>3-27-03 CER</i> b) cleaning <i>3-27-03 CER</i> c) preheat temperature <i>N/A</i> d) interpass temperature <i>N/A</i> e) temporary welds <i>N/A</i> f) backing strips/ruff tabs <i>N/A</i> g) joint preparation <i>3-27-03 CER</i> Record IR number: <i>021052-S-103</i>	<i>3-27-03</i> <i>CER</i>
2.3	Structural Steel and Misc. Metal	FCN-13233-153	Verify 100%	Verify that arc strikes have been ground to a smooth contour but no more than 1/32 in. of base metal shall be removed. Arc strikes exceeding more than 1/32 in. into the base metal shall be considered as a weld defect and repaired as specified. Record IR number: <i>021052-S-103</i>	<i>3-27-03</i> <i>CER</i>

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CONSTRUCTION INSPECTION: ANNING PACKAGE

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IP No. 21052-S-13		Rev. 0			
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
2.4	Structural Steel and Misc. Metal	FCN-13233-153	TPR-4981, Appendix D Visual 100% HOLD POINT	Visually inspect welds per AWS D1.1. Record IR Number: 021052-S-103	3-27-03 CEK
3.0	Structural Steel and Misc. Metal	MCP-9110	Verify Random	Verify that no suspect / counterfeit items have been utilized. Record IR number: 021052-S-103	3-27-03 CEK
4.0	General	MCP-9436 App. A, B & C	Verify Random Checklist 414.A33	Verify that materials / items are segregated based on quality level, with no commingling of quality levels. Record IR number: 021052-S-103	3-27-03 CEK
4.1	General	MCP-9436 App. A, B & C And STD-7006	Verify Random Checklist 414.A33	Verify that traceability markings (QA numbers, heat numbers, etc.) are transferred when material is subdivided. (transfer can be by marking, tagging or other unique identifier) Record IR number: 021052-S-103	3-27-03 CEK
5.0		MCP-2482	Verify	Verify that all inspections have been completed and forward this inspection plan to the QE for closure.	3-27-03 CEK

INSPECTION PLAN GENERAL NOTES

- 1) IF ANY ATTRIBUTE IS FOUND TO BE UNSATISFACTORY ON THE CIP, THEN ADDITIONAL INSPECTIONS SHALL BE PERFORMED UNTIL REASONABLE ASSURANCE IS ACHIEVED TO CONFIRM COMPLIANCE WITH THE INSPECTION PLAN REQUIREMENTS.
- 2) ALL INSPECTIONS, EXCEPT WELDING SHALL BE DOCUMENTED ON FORM 414.03, "QUALITY INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP. INSPECTION REPORTS SHALL BE COMPLETED AT LEAST DAILY. ANY IR REQUIRING ACTION SHALL BE FORWARDED TO THE QE FOR RESOLUTION.
- 3) WELDING INSPECTIONS SHALL BE DOCUMENTED ON FORM 414.04 "VISUAL INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP OR ON THE WELD HISTORY RECORDS (FORM 432.43, 432.44 AND 432.45)
- 4) WHEN DOCUMENTING INSPECTIONS, INCLUDE LOCATIONS OR OTHER IDENTIFICATION INFORMATION (HEAT NUMBER, LINE NUMBER, ROOM NUMBER, ETC.) TO PROVIDE TRACEABILITY TO THE ITEM.
- 5) ANY DESIGN CHANGE DOCUMENTS UTILIZED FOR INSPECTION (ACCEPTANCE SHALL ALSO BE DOCUMENTED ON FORM 414.03 OR NOTED ON THE APPLICABLE CIP ATTRIBUTE.
- 6) ATTACH A COPY OF ANY ASSOCIATED DOCUMENTS THAT WILL PROVIDE TRACEABILITY OR CLARIFICATION OF INSPECTIONS PERFORMED (IE: BATCH TICKETS).
- 7) M & TE SERIAL NUMBERS AND CALIBRATION DUE DATES HAVE BEEN RECORDED.
- 8) NCR / DR INFORMATION HAS BEEN RECORDED PER MCP-538 / 598.
- 9) ALL BLANKS HAVE BEEN COMPLETED OR NIA'D.
- 10) ALL LINE-OUTS OR WRITE OVERS HAVE BEEN INITIALED AND DATED.
- 11) VERIFY THAT APPLICABLE VDS DOCUMENTS HAVE BEEN APPROVED OR SUBMITTED, AS APPLICABLE, PRIOR TO PERFORMING INSPECTIONS.
- 12) INSTALLATION INSPECTIONS SHALL INCLUDE, AS A MINIMUM THE FOLLOWING ATTRIBUTES, AS APPLICABLE TO THE EQUIPMENT BEING INSPECTED

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CONSTRUCTION INSPECTOR TRAINING PACKAGE

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- A) ANCHOR BOLT PLACEMENT
B) ANCHOR BOLT TORQUE
C) LOCATION
D) ELEVATION
E) ORIENTATION
- 13) INSPECTIONS SHALL INCLUDE VERIFICATION FOR POTENTIALLY SUSPECT / COUNTERFEIT PARTS OR COMPONENTS PER MCP-9110.
- 14) ALL ATTRIBUTES IN THIS PLAN, EXCEPT THOSE THAT REQUIRE A SPECIFIC QUALIFICATION, (I.E. WELDING, NDE, HYDROSTATIC, PNEUMATIC, ETC.) MAY BE PERFORMED BY PERSONNEL QUALIFIED AS A "GENERAL INSPECTOR".

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Final QE Review:

[Signature]

Date:

4-7-03

WO/SC/PO No. S00-021052	Requester: S Davies	Requester Approval: <i>TECHNIPER EMAIL 3/24/03</i>	QE: Ron Staymates <i>RS</i>
Activity/Project Description: OU 7-10 Glovebox Excavator Method Facility Package Receipt Inspection Activities (Misc. CAS Electrical Items)			Release Date: 3/19/2003 <i>3/24/03</i>

P No. 21052-R-06		rev. 0		
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions
N/A	N/A	N/A	N/A	Subcontractor material that fa safety class (Q-1), safety significant (Q-2) or low safety consequence (Q-3) requires receipt inspection. This includes the following items, as a minimum: (see Form 414.92 & 414.70 for details)
1.0	Misc. CAS Electrical Items Warbonnet (Electrical)	PR-6416	Visual / 100%	Verify the following conditions, as applicable 1) Damage 2) Cleanliness 3) protective coating 4) markings / identification 5) dimensional (random) - utilize approved fab drawings, catalogue cuts, etc. 6) surface condition / finish 7) weld appearance 8) end protection
1.1	Per VDS	PR-6416	Visual / 100%	IR number: 021052-R-105, 021052-R-106 Verify that the material is traceable to the associated documentation, and that it

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IP NO. 21052-R-06		Rev. 0			
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
1.2	Per Form 431.53 For Drawing 522776 & 522777, dated 3/18/03	MCP-3772/TPR-6416	Verify / 100%	Perform inspections specified on the CGI Forms 431.53, for the items identified on the CGI forms. Document inspections on an IR Form 414.03. Record IR numbers: 021052-R-105 - TAME modules 021052-R-106 - SGT 18/3 Cord	<i>mk</i> 4/10/03
1.3	Per Form 414.M and / or 414.70	TPR-6416	Verify / 100%	Apply a QC Accept tag to the items, where practical. When this is not feasible, the tag shall be placed with the inspection report for future reference. NOTE: All items accepted shall be uniquely identified to indicate acceptance. This identification shall consist of either placing a tag, where possible or by applying the CIA number and initial/date physically on the item with a black indelible marker.	<i>mk</i> 4/10/03
2.0	Inspection Plan	MCP-2482	Verify	Verify that all inspections have been completed and forward this inspection plan to the QE for closure.	<i>mk</i> 4/10/03

- IF ANY ATTRIBUTE IS FOUND TO BE UNSATISFACTORY ON THE CIP, THEN ADDITIONAL INSPECTIONS SHALL BE PERFORMED UNTIL REASONABLE ASSURANCE IS ACHIEVED TO CONFIRM COMPLIANCE WITH THE INSPECTION PLAN REQUIREMENTS.
- ALL INSPECTIONS, EXCEPT WELDING SHALL BE DOCUMENTED ON FORM 414.03, "QUALITY INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP. INSPECTION REPORTS SHALL BE COMPLETED AT LEAST DAILY. ANY IR REWIRING ACTION SHALL BE FORWARDED TO THE QE FOR RESOLUTION.
- WELDING INSPECTIONS SHALL BE DOCUMENTED ON FORM 414.04 "VISUAL INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP OR ON THE WELD HISTORY RECORDS (FORM 432.43, 432.44 AND 432.45)
- WHEN DOCUMENTING INSPECTIONS, INCLUDE LOCATIONS OR OTHER IDENTIFICATION INFORMATION (HEAT NUMBER, LINE NUMBER, ROOM NUMBER, ETC.) TO PROVIDE TRACEABILITY TO THE ITEM.
- ANY DESIGN CHANGE DOCUMENTS UTILIZED FOR INSPECTION / ACCEPTANCE SHALL ALSO BE DOCUMENTED ON FORM 414.03 OR NOTED ON THE APPLICABLE CIP ATTRIBUTE.
- ATTACH A COPY OF ANY ASSOCIATED DOCUMENTS THAT WILL PROVIDE TRACEABILITY OR CLARIFICATION OF INSPECTIONS PERFORMED (IE: BATCH TICKETS).
- M & TE SERIAL NUMBERS AND CALIBRATION DUE DATES HAVE BEEN RECORDED.
- NCR / DR INFORMATION HAS BEEN RECORDED PER MCP-538 / 598.
- ALL BLANKS HAVE BEEN COMPLETED OR N/A'D.
- WHEN PERFORMING LIQUID PENETRANT EXAMINATION RECORD THE BATCH NUMBER ON EITHER THE WELD HISTORY RECORD OR THE IR OR THE CIP
- ALL LINE-OUTS OR WRITE OVERS HAVE BEEN INITIALED AND DATED.

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- 12) VERIFY THAT APPLICABLE VDS DOCUMENTS HAVE BEEN APPROVED OR SUBMITTED, AS APPLICABLE, PRIOR TO PERFORMING INSPECTIONS.
- 13) INSTALLATION INSPECTIONS SHALL INCLUDE, AS A MINIMUM THE FOLLOWING ATTRIBUTES, AS APPLICABLE TO THE EQUIPMENT BEING INSPECTED:
- A) ANCHOR BOLT PLACEMENT
 - B) ANCHOR BOLT TORQUE
 - C) LOCATION
 - D) ELEVATION
 - E) ORIENTATION
- 14) INSPECTIONS SHALL INCLUDE VERIFICATION FOR POTENTIALLY SUSPECT/COUNTERFEIT ITEMS PER MCP-9110.
- 15) ALL ATTRIBUTES IN THIS PLAN, EXCEPT THOSE THAT REQUIRE A SPECIFIC QUALIFICATION, (I.E. WELDING, NDE, HYDROSTATIC, PNEUMATIC, ETC.) MAY BE PERFORMED BY QUALIFIED PERSONNEL OTHER THAN A 'GENERAL INSPECTOR'.
- 16) WHEN CONFLICTS ARISE THAT PRECLUDE THE INSPECTOR FROM PERFORMING A VERIFICATION ACTIVITY, THE INSPECTOR IS ALLOWED TO DOCUMENT COMPLETION OF INSPECTION STEPS, BASED ON OBJECTIVE EVIDENCE FROM THE COGIZANT STR OR QE THAT THOSE STEPS HAVE BEEN COMPLETED AS DESCRIBED IN THE INSPECTION PLAN. ATTACH COPIES OF THE OBJECTIVE EVIDENCE TO THIS PLAN.

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CONSTRUCTION INSPECTION PLANNING PACKAGE

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Final QE Review:

Date: 4-7-03

WQ/SC/PO No. 021052	Requester: Steve Davies	Requester Approval: STEVE DAVIES DEC 5/11/03	QE: Ron Staymates 3/18/03
Activity/Project Description: OU 7-10 Glovebox Excavator Method Facility (FCR-147 RCS BASE ANGLE INSTALLATION) Floor Structure is safety significant (Q2) / WES is low safety consequence (Q3) / RCS is safety significant (Q2)			Release Date: 3/24/03

P No. 21052-S-14		Rev. 0			
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
				SEE ATTACHED GENERAL NOTES PAGE FOR ADDITIONAL INFORMATION RELATIVETO THIS INSPECTION. ALL SAFETY SIGNIFICANT AND LOW SAFETY CONSEQUENCE WELDING PROCESSES SHALL BE DOCUMENTED ON FORMS 432.44 AND 432.45 OR FORM 432.43 OR THE DRAWINGS.	3-27-03 CER
1.0	Structural Steel and Misc. Metal	FCR-13233-147	Verify 100%	Verify that the Base Assembly Base Plate Holes fall completely within the floor plate per the FCR. Record IR number: 021052-S-102	3-27-03 CER
2.0	Structural Steel and Misc. Metal	FCR-13233-147	Verify 100%	Verify that the welders are qualified to perform the welding process and have a current qualification. Record IR number: 021052-S-102	2-27-03 CER
2.1	Structural Steel and Misc. Metal	FCR-13233-147	Verify 100%	Verify that the filler metal is the correct type per the WPS and that it is traceable to a typical CMTR. Record IR number: 021052-S-102	3-27-03 CER
2.2	Structural Steel and Misc. Metal	FCR-13233-147	Verify 100%	Verify that the welding process is being performed in accordance with the parameters defined in the WPS, including the following a) base metal preparation 3-27-03 CER b) cleaning 3-27-03 CER c) preheat temperature N/A d) interpass temperature N/A e) temporary welds N/A f) backing strips/runoff tabs N/A g) joint preparation 3-27-03 CER Record IR number: 021052-S-102	3-27-03 CER
2.3	Structural Steel and Misc. Metal	FCR-13233-147	Verify 100%	Verify that arc strikes have been ground to a smooth contour but no more than 1/32 in. of base metal shall be removed. Arc strikes exceeding more than 1/32 in. into the base metal shall be considered as a weld defect and repaired as specified. Record IR number: 021052-S-102	3-27-03 CER

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IP No. 21052-S-14		Rev. 0			
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
2.4	Structural Steel and Misc. Metal	FCR-13233-147	TPR-4981, Appendix D Visual 100% HOLD POINT	Visually inspect welds per AWS D 1.1. Record IR Number: 021052-S-102	3-27-03 CFR
3.0	Structural Steel and Misc. Metal	MCP-9110	Verify Random	Verify that no suspect / counterfeit items have been utilized. Record IR number: 021052-S-102	3-27-03 CFR
4.0		MCP-2482	Verify	Verify that all inspections have been completed and forward this inspection plan to the QE for closure.	3-27-03 CFR

INSPECTION PLAN GENERAL NOTE

- 1) IF ANY ATTRIBUTE IS FOUND TO BE UNSATISFACTORY ON THE CIP, THEN ADDITIONAL INSPECTIONS SHALL BE PERFORMED UNTIL REASONABLE ASSURANCE IS ACHIEVED TO CONFIRM COMPLIANCE WITH THE INSPECTION PLAN REQUIREMENTS.
- 2) ALL INSPECTIONS, EXCEPT WELDING SHALL BE DOCUMENTED ON FORM 414-03, "QUALITY INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP. INSPECTION REPORTS SHALL BE COMPLETED AT LEAST DAILY. ANY IR REQUIRING ACTION SHALL BE FORWARDED TO THE QE FOR RESOLUTION.
- 3) WELDING INSPECTIONS SHALL BE DOCUMENTED ON FORM 414.04 VISUAL INSPECTION REPORT AND ATTACHED TO THE APPLICABLE CIP OR ON THE WELD HISTORY RECORDS (FORM 432.43, 432.44 AND 432.45)
- 4) WHEN DOCUMENTING INSPECTIONS, INCLUDE LOCATIONS OR OTHER IDENTIFICATION INFORMATION (HEAT NUMBER, LINE NUMBER, ROOM NUMBER, ETC.) TO PROVIDE TRACEABILITY TO THE ITEM.
- 5) ANY DESIGN CHANGE DOCUMENTS UTILIZED FOR INSPECTION/ ACCEPTANCE SHALL ALSO BE DOCUMENTED ON FORM 414.03 OR NOTED ON THE APPLICABLE CIP ATTRIBUTE.
- 6) ATTACH A COPY OF ANY ASSOCIATED DOCUMENTS THAT WILL PROVIDE TRACEABILITY OR CLARIFICATION OF INSPECTIONS PERFORMED (IE BATCH TICKETS).
- 7) M & TE SERIAL NUMBERS AND CALIBRATION DUE DATES HAVE BEEN RECORDED,
- 8) NCR / DR INFORMATION HAS BEEN RECORDED PER MCP-538 / 598.
- 9) ALL BLANKS HAVE BEEN COMPLETED OR N/A'D.
- 10) ALL LINE-OUTS OR WRITE OVERS HAVE BEEN INITIALED AND DATED.
- 11) VERIFY THAT APPLICABLE VDS DOCUMENTS HAVE BEEN APPROVED OR SUBMITTED, AS APPLICABLE, PRIOR TO PERFORMING INSPECTIONS.
- 12) INSTALLATION INSPECTIONS SHALL INCLUDE, AS A MINIMUM THE FOLLOWING ATTRIBUTES. AS APPLICABLE TO THE EQUIPMENT BEING INSPECTED:
 - A) ANCHOR BOLT PLACEMENT
 - B) ANCHOR BOLT TORQUE
 - C) LOCATION
 - D) ELEVATION
 - E) ORIENTATION
- 13) INSPECTIONS SHALL INCLUDE VERIFICATION FOR POTENTIALLY SUSPECT / COUNTERFEIT PARTS OR COMPONENTS PER MCP-8110.

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- 14) ALL ATTRIBUTES IN THIS PLAN, EXCEPT THOSE THAT REQUIRE A SPECIFIC QUALIFICATION, (I.E. WELDING, NDE, HYDROSTATIC, PNEUMATIC, ETC.) MAY BE PERFORMED BY PERSONNEL QUALIFIED AS A "GENERAL INSPECTOR".

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CONSTRUCTION INSPECTION PLANNING PACKAGE

Final QE Review:

Date: 4-9-03

WO/SC/PO No. 021052	Requester: Steve Davies	Requester Approval: <i>SLON TENSEN PER EMAIL</i>	QE: Ron Staymates 12/16/02
Activity/Project Description: OU 7-10 Glovebox Excavator Method Facility (ICR-066 REWORK ACTIVITIES)			Release Date: 1-20-03
Floor Structure is safety significant (Q2) / WES is low safety consequence (Q3) / RCS is safety significant (Q2) 1/16/03			

IP No. 21052-M-09		Rev. 0			
Item NO.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
				SEE ATTACHED GENERAL NOTES PAGE FOR ADDITIONAL INFORMATION RELATIVE TO THIS INSPECTION. ALL SAFETY SIGNIFICANT AND LOW SAFETY CONSEQUENCE WELDING PROCESSES SHALL BE DOCUMENTED ON FORMS 432.44 AND 432.45 OR FORM 432.43 OR THE DRAWINGS. THESE STEPS MAY BE WORKED IN ANY SEQUENCE NECESSARY TO COMPLETE THE WORK ACTIVITIES	
1.0	RCS	ICR-066 (COPY ATTACHED)	Verify 100%	Verify that the shim stock has been receipt inspected and is identified as safety significant (Q2)	2-6-03 CEK
1.1	RCs	ICR-066	Verify Random	Verify that the shim stock is bent per the ICR, attachment 3 and perform random dimensional checks to confirm compliance with the sketches.	2-6-03 CEK
1.2 1.2 RCS	RCS	ICR-066	Verify Random	Verify that the patches are installed per the ICR, attachment 3.	2-6-03 CEK
2.0	RCS	MCP-9110	Verify Random	Verify that no suspect / counterfeit items have been utilized. Record IR number: 021052-8-044	2-6-03 CEK
3.0		MCP-2482	Verify	Verify that all inspections have been completed and forward this inspection plan to the QE for closure.	2-6-03 CEK

INSPECTION PLAN GENERAL NOTES

- IF ANY ATTRIBUTE IS FOUND TO BE UNSATISFACTORY ON THE CIP, THEN ADDITIONAL INSPECTIONS SHALL BE PERFORMED UNTIL REASONABLE ASSURANCE IS ACHIEVED TO CONFIRM COMPLIANCE WITH THE INSPECTION PLAN REQUIREMENTS.
- ALL INSPECTIONS, EXCEPT WELDING SHALL BE DOCUMENTED ON FORM 414.03, "QUALITY INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP. INSPECTION REPORTS SHALL BE COMPLETED AT LEAST DAILY. ANY IR REQUIRING ACTION SHALL BE FORWARDED TO THE QE FOR RESOLUTION.

22-0358060 LMIT

- 3) **WELDING INSPECTIONS SHALL** BE DOCUMENTED ON **FORM 414.04 VISUAL INSPECTION REPORT** AND ATTACHED TO THE APPLICABLE CIP OR ON THE WELD HISTORY RECORDS (FORM 432.43, 432.44 AND 432.45)
- 4) **WHEN DOCUMENTING INSPECTIONS**, INCLUDE LOCATIONS OR OTHER IDENTIFICATION INFORMATION (HEAT NUMBER, LINE NUMBER, ROOM NUMBER, ETC.) TO PROVIDE TRACEABILITY TO THE ITEM.
- 5) ANY **DESIGN CHANGE** DOCUMENTS UTILIZED FOR INSPECTION / ACCEPTANCE SHALL ALSO BE DOCUMENTED ON FORM 414.03 OR NOTED ON THE APPLICABLE CIP ATTRIBUTE.
- 6) ATTACH A COPY OF ANY ASSOCIATED DOCUMENTS THAT WILL PROVIDE TRACEABILITY OR CLARIFICATION OF INSPECTIONS PERFORMED (IE: BATCH TICKETS).
- 7) **M & T SERIAL NUMBERS** AND CALIBRATION DUE DATES HAVE BEEN RECORDED.
- 8) NCR / DR INFORMATION HAS BEEN RECORDED PER MCP-538 / 598.
- 9) ALL BLANKS HAVE BEEN COMPLETED OR N/A'D.
- 10) **ALL LINE-OUTS** OR WRITE OVERS HAVE BEEN INITIALED AND DATED.
- 11) **VERIFY THAT APPLICABLE VOS DOCUMENTS** HAVE BEEN APPROVED OR SUBMITTED, AS APPLICABLE, PRIOR TO PERFORMING INSPECTIONS.
- 12) **INSTALLATION INSPECTIONS SHALL INCLUDE, AS A MINIMUM** THE FOLLOWING ATTRIBUTES, AS APPLICABLE TO THE EQUIPMENT BEING INSPECTED:
 - A) **ANCHOR BOLT PLACEMENT**
 - B) **ANCHOR BOLT TORQUE**
 - C) **LOCATION**
 - D) **ELEVATION**
 - E) **ORIENTATION**
- 13) **INSPECTIONS SHALL INCLUDE VERIFICATION** FOR POTENTIALLY SUSPECT / COUNTERFEIT PARTS OR COMPONENTS PER MCP-9110.
- 14) ALL ATTRIBUTES IN THIS PCAN, EXCEPT **THOSE THAT REQUIRE A SPECIFIC QUALIFICATION**, (I.E. WELDING, NDE, HYDROSTATIC, PNEUMATIC, ETC.) MAY BE PERFORMED BY PERSONNEL **QUALIFIED** AS A 'GENERAL INSPECTOR'.
- 15) **CHECKLIST 414.A15 IS BEING PILOTTED** IN THIS INSPECTION PLAN (REF. TPR-4921). AND SUBJECT TO CLARIFICATION / REVISION DURING THE CONSTRUCTION ACTIVITIES WITH THE APPROVAL OF THE QE AND THE RE.

FILE - ORIGINAL
ELECTRICAL - COPY

22-0358061 LMIT

CONSTRUCTION INSPECTION PLANNING PACKAGE

Final QE Review:

[Signature]

Date:

6-10-03

WO/SC/PO No. 021052	Requester: Steve Davies	Requester Approval: <i>RON STAYMATES 12/23/02</i>	QE: Ron Staymates 12/23/02 <i>[Signature]</i>
Activity/Project Description: OU 7-10 Glovebox Excavator Method (CRITICALITY ALARM SYSTEM & ELECTRICAL)			Release Date: <i>1-22-03</i>
Floor Structure is safety significant (Q2) / WES is low safety consequence (Q3) / RCS is safety significant (Q2)			

P No. 21052-E-01		Rev. 0			
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
				SEE ATTACHED GENERAL NOTES PAGE FOR ADDITIONAL INFORMATION RELATIVE TO THIS INSPECTION. Electrical Penetrations thru the WES liner/ fabric are addressed on Inspection Plan 21052-M-05	
1.0	General	TPR-6416	Verify 100%	Verify that Receipt Inspection has been performed per 21052-R-02 on the item? being inspected.	<i>ML 4/24/03</i>
2.0	Electrical Raceway	16000 / 16110 and Drawing IN-13	Verify Random Checklist 414.A21	Verify that the raceway (conduit/ cable tray), including supports for the CAS is routed per the drawing. Record IR number: <i>021052-E-105 F132</i>	<i>ML 5/24/03</i>
2.1	Electrical Cable & Wire	16000/16120 and Drawing IN-16, 18 & 19	Verify Random Checklist 414.A23, A24 & A36	Verify that the cable & wire for the CAS is the correct type and color, and installed, including terminations per the specification and the drawing. Record IR number: <i>021052-E-004 F132</i>	<i>ML 5/24/03</i>
2.1.1	Electrical Cable & Wire	16000/ 16120 and Drawing IN-16, 18 & 19	Verify 100% Checklist 414.A36 HOLD POINT	Witness megger testing of the CAS cable & wire per subcontractor approved procedure. Record IR number: <i>021052-E-099 I-132</i>	<i>ML 5/24/03</i>
2.1.2	Electrical Cable & Wire	16000 / 16120 and Drawing IN-16, 18 & 19	Verify 100% Checklist 414.A36 HOLD POINT	Witness continuity testing of the CAS cable & wire per subcontractor approved procedure. Record IR number: <i>021052-E-099 I-132</i>	<i>ML 5/24/03</i>
2.2	Electrical General	16000 / 16195 Drawing IN-13, 16, 18, 19, 20	Verify 100% Checklist 414.A25	Verify that the electrical equipment & components, including raceway and cable & wire for the CAS is labeled / identified per the specification and drawing. Record IR number: <i>021052-E-132 T</i>	<i>7 / 4 3</i>

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CONSTRUCTION INSPECTION PLANNING PACKAGE

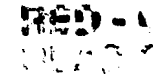
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IP No. 21052-E-01		Rev. 0			
Item No.	Process/Item/ Material or Equipment	Acceptance Criteria Reference	Method/Procedure Reference	Instructions	Complete Initial/Date
2.3	Electrical Disconnect Switches	16000 ■ 16360 and Drawing IN-13, 16, 18, 19, 20	Verify 100% Checklist 414.A25	Verify that the resets for the CAS system have been installed per the specification and the drawings. Record IR number: 021052-2-109	ml 4/11/03
2.4	Electrical Grounding	16000 ■ 16450 and Drawing IN-13, 16, 18, 19, 20	Verify Random	Verify that the CAS is grounded per the specification and the drawings. Record IR number: 021052-2-109	ml 4/11/03
2.5	Electrical General	16000 ■ 16632 and Drawing IN-13, 16, 18, 19, 20	Verify Random	Verify that the CAS system has been installed per the specification and the drawings. Record IR number: 021052-1-132	ml 5/24/03
2.5.1	Electrical General	16000 / 16632 and Drawing IN-13, 16, 18, 19, 20	Verify 100% HOLD POINT	Witness proper operation testing of the CAS per subcontractor approved procedure. Record IR number: NCR-30799 (complete 5/1/03) 021052-1-115	ml 5/24/03
2.5.2	Electrical General	16000 / 16632 and Drawing IN-13, 16, 18, 19, 20	Verify 100% HOLD POINT	Witness simulation of the CAS alarm testing, including visual and audible alarms and dBA levels of the CAS per subcontractor approved procedure. Ensure that the sound pattern for the horns (alternating pattern TM3) is acceptable. Record IR number: NCR-30799 (complete 5/1/03) 021052-1-115, 1-124	ml 5/24/03
3.0	General	MCP-9436 App. A, B & C	Verify Random Checklist 414.A33	Verify that materials / items are segregated based on quality level, with no commingling of quality levels. Record IR number: 021052-2-099	ml 5/18/03
3.1	General	MCP-9436 App. A, B & C And STD-7006	Verify Random Checklist 414.A33	Verify that traceability markings (QA numbers, heat numbers, etc.) are transferred when material is subdivided. (transfer can be by marking, tagging or other unique identifier) Record IR number: 021052-2-099	ml 5/18/03
4.0		MCP-2482	Verify	Verify that all inspections have been completed and forward this inspection plan to the QE for closure.	ml 6/10/03

O-159

INSPECTION PLAN GENERAL NOTES

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- 1) IF ANY ATTRIBUTE IS FOUND TO BE UNSATISFACTORY ON THE CIP, THEN ADDITIONAL INSPECTIONS SHALL BE PERFORMED UNTIL REASONABLE ASSURANCE IS ACHIEVED TO CONFIRM COMPLIANCE WITH THE INSPECTION PLAN REQUIREMENTS.
- 2) ALL INSPECTIONS, EXCEPT WELDING SHALL BE DOCUMENTED ON FORM 414.03, "QUALITY INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP. INSPECTION REPORTS SHALL BE COMPLETED AT LEAST DAILY. ANY IR REQUIRING ACTION SHALL BE FORWARDED TO THE QE FOR RESOLUTION.
- 3) WELDING INSPECTIONS SHALL BE DOCUMENTED ON FORM 414.04 "VISUAL INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP OR ON THE WELD HISTORY RECORDS (FORM 432.43, 432.44 AND 432.45)
- 4) WHEN DOCUMENTING INSPECTIONS, INCLUDE LOCATIONS OR OTHER IDENTIFICATION INFORMATION (HEAT NUMBER, LINE NUMBER, ROOM NUMBER, ETC.) TO PROVIDE TRACEABILITY TO THE ITEM.
- 5) ANY DESIGN CHANGE DOCUMENTS UTILIZED FOR INSPECTION/ACCEPTANCE SHALL ALSO BE DOCUMENTED ON FORM 414.03 OR NOTED ON THE APPLICABLE CIP ATTRIBUTE.
- 6) ATTACH A COPY OF ANY ASSOCIATED DOCUMENTS THAT WILL PROVIDE TRACEABILITY OR CLARIFICATION OF INSPECTIONS PERFORMED (IE: BATCH TICKETS).
- 7) M & TE SERIAL NUMBERS AND CALIBRATION DUE DATES HAVE BEEN RECORDED.
- 8) NCR / DR INFORMATION HAS BEEN RECORDED PER MCP-538 / 598.
- 9) ALL BLANKS HAVE BEEN COMPLETED OR N/A'D.
- 10) ALL LINE-OUTS OR WRITE OVERS HAVE BEEN INITIALED AND DATED.
- 11) VERIFY THAT APPLICABLE VDS DOCUMENTS HAVE BEEN APPROVED OR SUBMITTED, AS APPLICABLE, PRIOR TO PERFORMING INSPECTIONS.
- 12) INSTALLATION INSPECTIONS SHALL INCLUDE, AS A MINIMUM THE FOLLOWING ATTRIBUTES, AS APPLICABLE TO THE EQUIPMENT BEING INSPECTED:
 - A) ANCHOR BOLT PLACEMENT
 - B) ANCHOR BOLT TORQUE
 - C) LOCATION
 - D) ELEVATION
 - E) ORIENTATION
- 13) INSPECTIONS SHALL INCLUDE VERIFICATION FOR POTENTIALLY SUSPECT / COUNTERFEIT PARTS OR COMPONENTS PER MCP-9110.
- 14) ALL ATTRIBUTES IN THIS PLAN, EXCEPT THOSE THAT REQUIRE A SPECIFIC QUALIFICATION, (I.E. WELDING, NDE, HYDROSTATIC, PNEUMATIC, ETC.) MAY BE PERFORMED BY PERSONNEL QUALIFIED AS A "GENERAL INSPECTOR".
- 15) CHECKLIST 414.A15 IS BEING PILOTTED IN THIS INSPECTION PLAN (REF. TPR-4921). AND SUBJECT TO CLARIFICATION / REVISION DURING THE CONSTRUCTION ACTIVITIES WITH THE APPROVAL OF THE QE AND THE RE.

CONSTRUCTION INSPECTION PLANNING PACKAGE

Final QE Review:

[Signature]

Date: 7-30-03

WO/SC/PO No. 021052	Requester: Steve Davies	Requester Approval: <u>STEVE DAVIES PER EMAIL</u>	QE: Ron Staymates 7/09/03 <u>Rd</u>
Activity/Project Description: OU 7-10 Glovebox Excavator Method Facility (BACKHOE SWING STOP ACTIVITIES)			7/9/03
Floor Structure is safety significant (Q2) / WES is low safety consequence (Q3) / RCS is safety significant (Q2)			Release Date: <u>7-9-03</u>

P No. 21052-S-16		Rev. 0			Instructions	Complete Initial/Date
					SEE GENERAL NOTES PAGE FOR ADDITIONAL INFORMATION RELATIVE TO THIS INSPECTION.	
1.0	Backhoe Swing Stops-RH	DWG 519933 & SAR-4. Addendum J. 4.4.6.3	Verify 100%		Verify swing stop shim is installed on the right hand side of the backhoe (as viewed from the rear of the backhoe).	<u>7-27-03</u> <u>CEK</u>
1.1	Backhoe Swing Stops-RH	DWG 519933 & SAR-4. Addendum J. 4.4.6.3	Verify 100%		Verify swing stop prevents the right hand movement (as viewed from the rear of the backhoe) of the end-effector before it can strike the RCS WALL with the 24 inch Wain-Roy Jaw bucket attached. <u>7-29-03</u>	<u>7-29-03</u> <u>CEK</u>
2.0	Backhoe Swing Stops-LH	DWG 519933 & SAR-4. Addendum J. 4.4.6.3	Verify 100%		Verify swing stop shim is installed on the left hand side of the backhoe (as viewed from the rear of the backhoe).	<u>7-29-03</u> <u>CEK</u>
2.1	Backhoe Swing Stops-LH	DWG 519933 & SAR-4. Addendum J. 4.4.6.3	Verify 100%		Verify swing stop prevents the left hand movement of the end-effector (as viewed from the rear of the backhoe) before it can strike the RCS WALL with the 24 inch Wain-Roy Jaw bucket attached. <u>7-29-03</u>	<u>7-29-03</u> <u>CEK</u>
3.0	General	MCP-2482	Verify		Verify that all inspections have been completed and forward this inspection plan to the QE for closure.	<u>7-29-03</u> <u>CEK</u>

CONSTRUCTION INSPECTION PLANNING PACKAGE

Final QE Review:

Date: 6-16-03

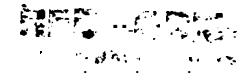
WO/SC/PO No. 021052	Requester: Steve Davies	Requester Approval: STEVE DAVIES PER EMAIL 6/14/03	QE: Ron Staymates 6/10/03 RB
Activity/Project Description: OU 7-10 Glovebox Excavator Method Facility (FRENCH CAN'S per NCR-31148) French Can's are safety significant (Q2)			Release Date: 6-11-03

IP No. 21052-M-20		Rev. 0			
Item	Process/Item Material Equipment	Reference	Reference		Initial/Date
				SEE ATTACHED GENERAL NOTES PAGE FOR ADDITIONAL INFORMATION RELATIVE TO THIS INSPECTION.	
1.0	PGS #1 French Can's	NCR-31148	Verify 10000	Verify that cell ports <u>will not open</u> without a canister in place	6-12-03 CFR
1.1	PGS #3 French Cans	NCR-31148	Verify 100%	Verify that cell ports <u>will not open</u> without a canister in place	6-12-03 CFR
2.0	PGS #1 French Cans	FCR-13233-190	Verify 10000	Verify that the cell ports function properly <u>with</u> the canister in place and fully engaged	6-12-03 CFR
2.1	PGS #3 French Cans	FCR-13233 190	Verify 100%	Verify that the cell ports function properly the canister in place and fully engaged	6-12-03 CFR
3.0	General	MCP-9110	Verify Random	Verify that no suspect / counterfeit items have been utilized	6-12-03 CFR
4.0	General	MCP-2482	Verify	Verify that all inspections have been completed and forward this inspection plan to the QE for closure.	6-12-03 CFR

INSPECTION PLAN GENERAL NOTES

- 1) IF ANY ATTRIBUTE IS FOUND TO BE UNSATISFACTORY ON THE CIP, THEN ADDITIONAL INSPECTIONS SHALL BE PERFORMED UNTIL REASONABLE ASSURANCE IS ACHIEVED TO CONFIRM COMPLIANCE WITH THE INSPECTION PLAN REQUIREMENTS.
- 2) ALL INSPECTIONS, EXCEPT WELDING SHALL BE DOCUMENTED ON FORM 414.03, "QUALITY INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP. INSPECTION REPORTS SHALL BE COMPLETED AT LEAST DAILY. ANY IR REQUIRING ACTION SHALL BE FORWARDED TO THE QE FOR RESOLUTION.
- 3) WELDING INSPECTIONS SHALL BE DOCUMENTED ON FORM 414.04 "VISUAL INSPECTION REPORT" AND ATTACHED TO THE APPLICABLE CIP OR ON THE WELD HISTORY RECORDS (FORM 432.43, 432.44 AND 432.45)
- 4) WHEN DOCUMENTING INSPECTIONS, INCLUDE LOCATIONS OR OTHER IDENTIFICATION INFORMATION (HEAT NUMBER, LINE NUMBER, ROOM NUMBER, ETC.) TO PROVIDE TRACEABILITY TO THE ITEM.

CONSTRUCTION INSPECTION PLANNING PACKAGE



- 5) ANY DESIGN CHANGE DOCUMENTS UTILIZED FOR INSPECTION / ACCEPTANCE SHALL ALSO BE DOCUMENTED ON FORM 414.03 OR NOTED ON THE APPLICABLE CIP ATTRIBUTE.
- 6) ATTACH A COPY OF ANY ASSOCIATED DOCUMENTS THAT WILL PROVIDE TRACEABILITY OR CLARIFICATION OF INSPECTIONS PERFORMED (IE: BATCH TICKETS).
- 7) M & TE SERIAL NUMBERS AND CALIBRATION DUE DATES HAVE BEEN RECORDED.
- 8) NCR / DR INFORMATION HAS BEEN RECORDED PER MCP-538 / 598.
- 9) ALL BLANKS HAVE BEEN COMPLETED OR N/A'D.
- 10) ALL LINE-OUTS OR WRITE OVERS HAVE BEEN INITIALED AND DATED.
- 11) VERIFY THAT APPLICABLE VDS DOCUMENTS HAVE BEEN APPROVED OR SUBMITTED, AS APPLICABLE, PRIOR TO PERFORMING INSPECTIONS.
- 12) INSTALLATION INSPECTIONS SHALL INCLUDE, AS A MINIMUM THE FOLLOWING ATTRIBUTES, AS APPLICABLE TO THE EQUIPMENT BEING INSPECTED:
 - A) ANCHOR BOLT PLACEMENT
 - B) ANCHOR BOLT TORQUE
 - C) LOCATION
 - D) ELEVATION
 - E) ORIENTATION
- 13) INSPECTIONS SHALL INCLUDE VERIFICATION FOR POTENTIALLY SUSPECT / COUNTERFEIT PARTS OR COMPONENTS PER MCP-9110.
- 14) ALL ATTRIBUTES IN THIS PLAN, EXCEPT THOSE THAT REQUIRE A SPECIFIC QUALIFICATION. (I.E. WELDING. NDE. HYDROSTATIC. PNEUMATIC. ETC.) MAY BE PERFORMED BY PERSONNEL QUALIFIED AS A "GENERAL INSPECTOR".

Appendix P
Consumer Grade Construction Inspection Plans

Appendix P

Consumer Grade Construction Inspection Plans

432.83
09/05/2001
Rev. 01

ORIGINAL - RED CONSTRUCTION PLANNING PACKAGE, CONSUMER GRADE
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*Low Stayma
per attached e-mail*

Field Engineer: D.R. Johnson

Date: 10/02/02

WO/SC/PO No. PWO-02-037	Project Engineer: Steve Davies	PE Approval: <i>Steve Davies</i> 10/09/02	PFE Approval: <i>Dave Burrens</i> per attached e-mail
Activity/Project Description: OU 7-10 Glovebox Excavator Method - Facility Package			Release Date:

CPP No. 13233-X-01		Rev. 0		(Page 1 of 1)			
Item No.	Item/Material or Equipment	Spec./Code Reference	Method/Procedure Reference	Freq.	Perform By	Instructions	Status/Date/Initials
1	Dry Pipe Fire Protection System FCR-13233-12	Spec 13911	Drawing 522702 (FP-7) - Under floor and north perimeter piping only - Visual	As completed	FE	Verify materials are correct and approved	4-28-03 CFR
2	Dry Pipe Fire Protection System FCR-13233-12	Spec 13911	Drawing 522702 (FP-7) - Under floor and north perimeter piping only - Visual	As completed	FE	Verify installation and testing of under floor dry pipe system is in accordance with the specs and drawings : Dwg 522702, (FP-7), Dwg 522704 (FP-9), Sections E, B & J, Detail 2. Dwg 522705 (FP-10), Sections F & G	4-28-03 CFR
3	Grounding - FCR-13233-12	16450	NEC Art 250 Guideline E-8 Dwg 522725 (E-5) North perimeter steel only	As completed	FE	Verify grounding is installed per FCR-13233-12 and meets the requirements of NEC Guideline E-8	4/24/03
4	Electrical Ductbank - FCR-13233-12	116110 Dwg 522750 (LSS-3)	NEC Art 110, NEC Chapter 3, NEC Chapter 4, Guideline E-1 Dwg 522750 (LSS-3)	As Needed	FE	Verify all electrical raceways are installed per the NEC and meet the requirements of Guideline E-1	4/24/03

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09/05/2001
Rev. 01

CONSTRUCTION PLANNING PACKAGE, CONSUMER GRADE

ORIGINAL - D
COPY - BLACK

Field Engineer: D.R. Johnson

Date: 10/30/02

WO/SC/PO No. PWO-02-037	Project Engineer: Steve Davies	PE Approval: <i>K.L. Stroppe for S.A.</i>	PFE Approval: <i>[Signature]</i> 10/30/02
Activity/Project Description: OU 7-10 Glovebox Excavator Method - Facility Package			Release Date:

CPP No. 13233-X-02		Rev. 0	Page 1 of 1				
Item No.	Item/Material or Equipment	Spec./Code Reference	Method/Procedure Reference	Freq.	Perform By	Instructions	Status/Date/Initials
1	Plant Air / Breathing Air	Spec 15202	Drawing 522687 (P-4) exterior piping only - Visual	completed			<i>SW</i> 4/24/03
2	Plant Air / Breathing Air	Spec 15202	Drawing 522687 (P-4) exterior piping only - Visual	As completed	FE	Verify installation of breathing air piping shown on drawing P-4 is complete, and in accordance with the specs and drawings : drawing 522687, (P-4)	<i>SW</i> 4/24/03
3	Plant Air / Breathing Air	Spec 15202	Drawing 522687 (P-4) exterior piping only - Visual	As completed	FE	Verify installation of Plant air equipment is in accordance with the specs and drawings : Dwg 522687 (P-4)	<i>SW</i> 4/24/03
4	Fire Protection Systems - Riser Room only	Spec 13911	Drawing 522709 (FP-14) - Fire Riser Modifications - Visual	As Completed	FE	Verify materials are correct and approved	<i>SW</i> 4/24/03
5	Fire Protection Systems - Riser Room only	Spec 13911	Drawing 522709 (FP-14) - Fire Riser Modifications - Visual	As Completed	FE	Verify installation of Fire Protection materials are complete and in accordance with the specs and drawings	<i>SW</i> 4/24/03
6	Electrical conduit - Riser room and WMF-646	Spec 16110	Drawing 522723 (E-3) Plot Plan, 522751 (LSS-4) Plot Plan, 522788 (IN-31) Conduit Routing Plan to WMF-646	AS Completed	FE	Verify installation of conduit systems are complete and in accordance with NEC Article 310	<i>SW</i> 4/24/03
7	Electrical Wiring - Riser Room and WMF-646	Spec 16120	Drawing 522751 (LSS-4) - Plot Plan	As Completed	FE	Verify all power cable or wire 25 ft or more in length has been continuity tested and meggered per the requirements of spec 16120	<i>SW</i> 4/24/03
8	Electrical Wiring - Riser Room and WMF-646	Spec 16120	Drawing 522751 (LSS-4) - Plot Plan	As Completed	FE	Witness torquing of all connections unless indicated otherwise	<i>SW</i> 4/24/03

432.83
09/05/2001
Rev. 01

CONSTRUCTION PLANNING PACKAGE, CONSUMER GRADE

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9	Grounding	Spec 16450	NEC Art 250 Guideline E-8 Dwg 522725 (E-5)	As completed	FE	Verify grounding is installed per FCR-13233-12 and meets the requirements of NEC Art 250 and Guideline E-8	J 4/24/03
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09/05/2001
Rev. 01

CONSTRUCTION PLANNING PAGE, CONSUMER GRADE

ORIGINAL

Field Engineer: D.R. Johnson

Date: 11/1/02

WO/SC/PO No. 02-037	Project Engineer: Steve Davies	PE Approval: <i>[Signature]</i>	PFE Approval: <i>[Signature]</i>
Activity/Project Description: OU 7-10 Glovebox Excavator Method Project - Facility Package			Release Date: 12/6/02

Item No.	Item/Material or Equipment	Spec./Code Reference	Method/Procedure Reference	Freq.	Perform By	Instructions	Status/Date/Initials
CPP No. 13233-X-03	Rev. 0	Page 1 of 8					
1	Structural Welding	05060	Visual (VT) / D1.1 or D1.6 (copy attached) as applicable TPR-4981 App. D Static Loaded	As compl.	QI	Perform visual (VT) examination on field welds on all structures or components designated as Safety Category "C G" to include, but not limited to: H & V, fire protection piping, electrical or mechanical supports, backhoe Perform VT as follows: 1. Complete and partial penetration groove welds - 100% VT 2. Multi-pass fillet welds - 100% VT 3. Single pass fillet welds > 5/16 - 100% VT 4. Single pass fillet welds < or = 5/16 - 100% VT	4-25-03 CFR See S/C Weld Map
2	Structural steel and misc. metals	05100	Visual	As compl.	QI	Verify installation of high strength fasteners in accordance with "Specifications for Structural Joints Using ASTM A 325 or A 490 Bolts" to "Snug tight" for those items designated as "CG"	4-25-03 CFR
3	Joint sealants	07901	Visual Guideline A-31	As compl.	FE	Verify installation of joint sealant is in accordance with the joint sealant manufacturer's printed installation instructions.	4/24/03
4	Joint sealants	07901	Visual Guideline A-31	As compl.	FE	Verify installation of joint sealants are complete and in accordance with the specs and drawings	4/24/03
5	Painting	09900	Visual Guideline A-33	As compl.	FE	Verify paint material is stored at a minimum ambient temperature of 45 deg F IN ACCORDANCE W/ MANUFACTURER'S RECOMM.	4/24/03
6	Painting	09900	Visual Guideline A-33	As compl.	FE	Verify painting is complete and in accordance with the specs and drawings	4/23/03
7	Painting	09900	Visual	As compl.	FE	Verify identification of piping systems is complete and in accordance with the specs and drawings.	4/23/03
8	Painting	09900	Visual	As compl.	FE	Verify labeling of valves is in accordance with the specs and drawings	4/23/03
9	Water mist fire protection system	13190	Visual	As compl.	FE	Verify "red-line" drawings are complete and accurate. Verify all design changes are approved by the design engineer.	4/24/03

CONSTRUCTION PLANNING PAGE, CONSUMER GRADE

ORIGINAL

APP No. 13233-X-03	Rev 0	Page 2 of 8				
protection system	13190	Visual Guideline P-1	As compl.	FE	Verify all new water mist system piping and materials are new and approved and installed in accordance with the specs and drawings	Sw 4/27/03 4-24-03 CEK
Water mist fire protection system	13190	Visual	As compl.	FE/QI	Witness hydrostatic testing of all water mist fire protection pipes at not less than 200-psi pressure for two hours.	4-24-03 CEK
12 Dry pipe fire protection systems	13911	Visual Guideline P-8	As compl.	FE	Verify all dry pipe fire system piping and materials are new and approved and installed in accordance with the specs and drawings	Complete Sw 4/24/03
13 Dry pipe fire protection systems	13911	Visual	As compl.	FE	Verify "red-line" drawings are complete and accurate	Sw 4/28/03
14 Dry pipe fire protection systems	13911	Visual	As compl.	FE/QI	Witness hydrostatic testing of all new fire system piping at not less than 225-psi pressure for two hours.	4-24-03 CEK
15 Dry pipe fire protection systems	13911	Visual	As compl.			4-24-03 CEK
16 Dry pipe fire protection systems	13911	Visual	As compl.		maximum pressure or go below the minimum pressure as recommended by the dry pipe valve manufacturer	24/03 CEK
17 Manual deluge - fixed nozzle system	13914	Visual	As compl.	FE	Verify all manual deluge - fixed nozzle system piping and materials are new and approved and installed in accordance with the specs and drawings	24/03
18 Manual deluge - fixed nozzle system	13914	Visual	As compl.	FE	Verify "red-line" drawings are complete and accurate	Sw 4/29/03
19 Manual deluge - fixed nozzle system	13914	Visual	As compl.	FE/QI	Witness hydrostatic testing of all new fire system piping at not less than 225-psi pressure for two hours.	4-24-03 CEK
20 Manual deluge - fixed nozzle system	13914	Visual	As compl.	FE/QI	Verify deluge nozzles will spray in the required direction and at the designated flow rate before they are installed in the RCS	4-24-03 CEK
21 Stationary fire pump	13916 Guideline M-6	Visual	As compl.	FE/QI	Perform pre-test inspection of the fire pump system to include verification that the water tank, water mist system, engine exhaust, and piping are properly installed and operational.	4-24-03 CEK

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22	Stationary fire pump	13916	Visual	As compl.	FE/QI	Witness testing of the fire pump system as outlined in the approved test procedures	4-24-03 CEK
23	Carbon Steel Ductwork welding	15016	Visual TPR-4981	As compl.	QI	Perform visual (VT) examination on all field welds per AWS D9.1 (Copy attached) <i>See Contractor Weld Maps</i>	4-24-03 CEK
24	Compressed air piping	15202	Visual	As compl.	QI	Witness all Plant Air Piping and Breathing Air Piping hydrostatically tested in accordance with ASME B31.3 and the specifications. Pneumatic test pressure for a piping system shall be 110% of its design pressure <i>VDR-47316 4/24/03</i>	4-24-03 CEK
25	Compressed air piping	15202	Visual	As compl.	FE/QI	Verify breathing air lines and service air lines are cleaned per the specifications prior to installation <i>4/24/03</i>	4-24-03 CEK
26	Compressed air piping	15202	Visual	As compl.	FE/QI	Verify breathing air lines and service air lines are purged per the specifications <i>4/24/03</i>	4-24-03 CEK
27	Dust suppression system	15409	Visual	As compl.	QI	Witness water piping "in-service" pressure test at system pressure in accordance with ANSI B31.3, category D with no visible leakage <i>4/24/03</i>	4-24-03 CEK
28	Dust suppression system	15409	Visual	As compl.	QI	Witness Air piping "in-service" pressure test at system pressure in accordance with ANSI B31.3, category D with no visible leakage <i>4/24/03</i>	4-24-03 CEK
29	Dust suppression system	15409	Visual	As compl.	FE/QI	Verify air and water lines are cleaned and flushed per the specifications prior to installation <i>4/24/03</i>	4-24-03 CEK
30	Dust suppression system	15409	Visual	As compl.	FE/QI	Verify "system of operation" test is complete <i>4/24/03</i>	4-24-03 CEK
31	Dust suppression system	15409	Visual	As compl.	FE	Verify "red-line" drawings are complete and accurate <i>4/24/03</i>	4-24-03 CEK
32	Heating and ventilation system	15800	Visual	As compl.	FE/QI	Verify Construction Component testing is complete and verify proper operation of all systems and components <i>4/24/03</i>	4-24-03 CEK
33	Heating and ventilation system	15800	Visual	As compl.	FE/QI	Verify testing, adjusting and balancing is complete and performed by an agent or firm qualified to perform the testing <i>4-24-03</i>	4-24-03 CEK
34	Testing, adjusting, and balancing (TAB)	15980	Visual	As compl.	FE/QI	Verify testing and balancing is performed in accordance approved test procedures. <i>4-24-03</i>	4-24-03 CEK

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✓ 35	Electrical General Provisions	16000	Visual	As compl.	FE	Operational testing of all equipment, controls and equipment is complete	J 5/1/03
✓ 36	Switches, receptacles and wall plates	116109 NEC Art 210 & Art 406 Guideline E-4	Visual	As compl.	FE	Verify equipment installation conforms to the NEC(Art 210, 406), specifications and drawings	J 4/24/03
✓ 37	Switches, receptacles and wall plates	16109	Visual	As compl.	FE	Demonstrate functioning of circuitry is in accordance with the requirements	J 4/24/03
✓ 38	Switches, receptacles and wall plates	116109	Visual	As compl.	FE	Verify each receptacle has correct polarity and grounds	J 4/24/03
✓ 39	Electrical raceways	16110	Visual NEC article 300, 342, 344, 358 Guideline E-2	as compl.	FE	Verify installation conforms with NEC article 300, 342, 344, 358, specifications and drawings	J 4/24/03
✓ 40	Cable, wire, connectors and misc. devices	116120	Visual Guideline E-5	As compl.	FE	Verify meggering of all conductors 25 ft or greater is complete and all are 10 megohms to ground or higher.	J 4/24/03
✓ 41	Cable, wire, connectors and misc. devices	116120	Visual Guideline E-5	As compl.	FE	Verify Continuity testing of all conductors is complete.	J 4/24/03
✓ 42	Motor starters (<600 VAC)	16155	Visual NEC Art 430	As compl.	FE	Verify equipment installation conforms to NEC art 430, the specifications and drawings	J 4/24/03
✓ 43	Motor starters (<600 VAC)	16155	Visual NEC Art 240	As compl.	FE	Verify fuses are sized as specified on the drawings and in accordance with NEC Art 240	J 4/24/03
✓ 44	Motor starters (<600 VAC)	16155	Visual	As compl.	FE	Verify phase rotation of 3 phase motors	J 4/24/03
✓ 45	Panelboards	16160	Visual NEC Art 408 Guideline E-3	As compl.	FE	Verify equipment installation conforms to NEC Art 408, the specifications and drawings	J 4/24/03
✓ 46	Panelboards	16160	Visual	As compl.	FE	Verify phase loads are within 20%	J 4/24/03
✓ 47	Panelboards	116160	Visual	As compl.	FE	Verify that no suspect / counterfeit items have been utilized	J 4/24/03
✓ 48	Electrical identification	16195	Visual	As compl.	FE	Verify all conduits and raceways are labeled per the specifications	J 4/24/03

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49	Electrical identification	16195	Visual	As compl.	FE	Verify all equipment is labeled per the specifications and drawings	5/5/03
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50	Disconnect and less	16360	Visual	As compl.	FE	Verify equipment installation conforms to NEC Art 230, the specifications and drawings	4/24/03
51	Grounding	16450 NEC Art 250 Guideline E-8	Visual	As compl.	FE	Verify grounding is complete and installed per the requirements of NEC Art. 250, specifications and drawings	4/24/03
52	Grounding	16450	Visual	As compl.	FE	Verify ground resistance test is complete	4/24/03
53	Transformers, general lighting and distribution dry type, indoor and outdoor, under 600 volts	16460 NEC Art 450 Guideline E-7	Visual	As compl.	FE	Verify equipment installation conforms to NEC Art 450, the specifications and drawings	4/24/03
54	Lighting	16500	Visual	As compl.	FE	Verify Construction Component test of the lighting system is complete	4/24/03
55	CCTV	16630	Visual	As compl.	FE	Verify testing of CCTV system is complete and per approved test plan with the CCTV supplier present	5/1/03
56	Emissions monitoring system	16631 Guideline J-2	Visual	AS. Compl.	FE	Verify sample and instrument lines are complete and checked for leaks and blockage	4/29/03
57	Emissions monitoring system	16631	Visual	As compl.	FE	Verify system testing by "Air Monitor Corp." is complete and includes: 1. Velocity profile test 2. Functional test of flow controls 3. Functional test of alarm and monitoring parameters wired into WES-CP-800 4. Functional test of the heat trace system 5. Functional test of temperature and flow sensors	4/29/03
58	Criticality alarm system	16632	Visual	As compl.	FE	Witness operational test of all equipment, controls and devices	5/1/03
59	Criticality alarm system	16632	Visual	As compl.	FE	Verify all audible and visual alarms are working properly	5/1/03

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60	Criticality alarm system	116632	Visual	As Compl.	FF	Verify audible alarms are 10 dBA above ambient, but no less than 75 dBA or greater than 115 dBA in any area occupied by personnel	5/1/03
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61	Lightning protection	16650	Visual	As compl.		specifications and drawings Document on form "LPI-1-R94" DELETED PER 13233-132 5/4/03	4/24/03
62	Fire alarm system	16721	Visual	As compl.	FE	Verify testing of systems are complete and performed by a NICET Level III Certified Installer	5/1/03
63	Fire alarm system	116721 Guideline E-5	Visual	As compl.	FE	Verify meggering of all conductors 25 ft or greater is complete and all conductors are 10 megohms to ground or higher.	4/24/03
64	Fire alarm system	116721	Visual	As compl.	FE	For wiring terminating in a "Smart Panel", verify testing of wire 25 ft or longer for capacitance with a capacitive bridge or other suitable capacitive measuring device for SLC circuits only.	4/24/03
65	Fire alarm system	116721	Visual	As compl.	FE	Verify impedance testing is performed with an impedance bridge	4/24/03
66	Carbon monoxide detection system	16730	Visual	As compl.	FE	Verify complete system is tested per manufacturer's start up procedure and acceptance procedure	5/1/03 4/25/03
	(General Provisions	(Guideline E-5		As compl.	FE	Verify continuity testing of all conductors is complete prior to termination	4/24/03
68	instrumentation General Provisions	16810 Guideline J-5	Visual	As compl.	FE	Verify component check-out test is complete and per the approved test procedure	4/24/03
69	General	MCP-9110	Visual	Verify random	FE	Verify that no suspect / counterfeit items have been utilized	4/24/03
70	General	MCP-9436 App. A, B & C	Visual	Verify random	FE	Verify that materials / items are segregated based on quality level, with no commingling of quality levels	4/24/03
71	Equipment and system components and associated work Table.	01005	Visual	As compl.	FE	Verify the following equipment and systems are installed complete:	N/A 4/24/03
		PLN-652				1. PGS glovebox lighting	4/24/03
						2. Operating platform	complete 4/18/03
						3. PGS automatic fire suppression system within the PGS structure = Mist nozzles	5/3/03

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				4. Notification equipment – isolation valves & supply system	4/24/03
		PLN-652		5. Glovebox light curtain	4/24/03
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		PLN-1088		6. Drum-loadout enclosures (tents)	5/13/03
		SPC-388		7. Drum loadout lift tables	5/17/03 4/22/03
				8. Drum loadout tent fire suppression	4/22/03
				9. Material transfer cart system – cart crush pads	4/24/03
				10. Cart protection structure	4/18/03 4/24/03
				11. Cart protection spill pan	4/18/03 4/24/03
		PLN-1076		12. Excavator	4/26/03
		PLN-1076		13. Excavator drip pans	3/19/03
		PLN-1076		14. Excavator exhaust system – Exhaust ducting & exhaust fan	complete 4/18/03
				15. Probe puller cap	complete 4/17/03
				16. End-effector stands	5/1/03
				17. Drum sizing tray	4/25/03
				18. Material bin – absorbent material in the RCS	complete 4/18/03
				19. Material bin – fire suppressant material in the RCS	complete 4/18/03
				20. Guard rail / fall protection	5/1/03 4/25/03
		15800, 15016		21. H & V ductwork (past HEPA filters)	4/25/03
		15800		22. Fans	4/25/03
		15800		23. Heaters	4/24/03
		15800		24. WES penthouse ductwork and damper and filter assembly	4/25/03
				25. Optional standby generator	5/10/03
		16120		26. Electrical power cabling / wiring to Load Center	4/24/03

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		16120			27. Electrical power cabling / wiring from Load Center to Project	4/24/03
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					28. Automatic transfer switch	4/25/03
					29. Motor Control Centers (MCCs) / distribution panels	4/25/03
					30. Dust suppression system (water misting and fogging system)	4/26/03
					31. Plant air system (to support the dust suppression system)	4/26/03
					32. Breathing air system	4/26/03
					33. WES and RCS automatic sprinkler system	4/26/03
					34. Fire detection and alarm system	4/26/03
					35. Monitoring and control	4/26/03
					36. Programmable logic control system	4/26/03
					37. RadCon counting / storage tables	4/29/03
					38. Emissions monitoring system – Sample lines	4/26/03
					39. Emissions monitoring system – Data / power cabling	4/29/03
		16630			40. CCTV Cameras	4/25/03
		16630			41. CCTV cathode ray tube monitors	4/25/03
		16630			42. Video cassette recorders	4/25/03
		16630			43. Pan and tilt actuators	4/25/03
		16630			44. Excavator control panel and video monitor display and mounting hardware	4/25/03
					45. Personnel lockers	4/24/03
					46. Motorized pallet jack	4/25/03

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CONSTRUCTION PLANNING PACKAGE, CONSUMER GRADE

ORIGINAL

Field Engineer: D.R. Johnson

Date: 12/05/02

WO/SC/PO No. 02-037	Project Engineer: Steve Davies	PE Approval: <i>Per Attached E-MAIL</i> <i>[Signature]</i> 12/10/02	PFE Approval: <i>Per Attached E-MAIL</i> <i>[Signature]</i> 12/9/02
Activity/Project Description: OU 7-10 Glovebox Excavator Method Project - Facility Package			Release Date:

CPP No. 13233-M-01		Rev. 0	Page 1 of 1				
Item No.	Item/Material or Equipment	Spec./Code Reference	Method/Procedure Reference	Freq.	Perform By	Instructions	Status/Date/Initials
1	Structural Welding	5060	Visual (VT) / D1.1 as applicable TPR-4981 App. D Static Loaded	As compl.	QI	Perform visual (VT) examination on shop welds on all components designated as Safety Category "C G"	<i>LB</i> <i>[Signature]</i> 1-23-03 12/25/03
2	Carbon Steel Ductwork Welding	5016	Visual (Visual (VT) / D9.1 (copy attached) as applicable TPR-4981	As compl.	QI	Perform visual (VT) examination on shop welds on all components designated as Safety Category "C G"	<i>LB</i> <i>[Signature]</i> 1-23-03 12/24/03

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CONSTRUCTION PLANNING PACKAGE, CONSUMER GRADE

Field Engineer: D.R. Johnson

Date: 11/1/02

		PE Approval: <u>PER ATTACHED G.M.M.</u>	PFE Approval: <u>PER ATTACHED G.M.M.</u>
Activity/Project Description: <u>OU 7-10 Glovebox Excavator Method Project - Facility Package</u>		<u>12/18/02</u>	Release Date: <u>12/18/02</u>

CPP No. 13233-M-01		Rev. 0	Page 1 of 1				
Item No.	Item/Material or Equipment	Spec./Code Reference	Method/Procedure Reference	Freq.	Perform By	instructions	Status/Date/Initials
1	Monitoring Insert Plate	DWG 522779 (IN-22)	Visual	PTS	FE/QI	Perform dimensional check on Monitoring Insert Plate identified on drawing 522779, Views "J" & "H" prior to shipment to Air Monitoring	<u>RB</u> <u>4-28-02</u>

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CONSTRUCTION PLANNING PAGE, CONSUMER GRADE

ORIGINAL

Field Engineer: DARIN JOHNSON / STEVE MOODY Date: 4/14/03

S. DAVIES

D. BELIZ

WO/SC/PO No. <u>02037</u>	Project Engineer: Steve Davies	PE Approval: <u>Steve Davies</u>	PFE Approval: <u>[Signature]</u> <u>4/17/03</u>
Activity/Project Description: <u>OU7-10 Glovebox Excavation. Method Project Site Development</u>			Release Date:

4/14/03 FACILITIES PACKAGE new attached
E-MAIL FROM
STEVE DAVIES

PP No. 21052-C-01		Rev. 0	Page 1 of					
Item No.	Item/Material or Equipment	Spec./Code Reference	Method/Procedure Reference	Freq.	Perform By	Instructions		Status/Date/Initials
1.0	Earthwork	DCN MSS-1, drawing 522058 & 522060	Verify	Random	FE	Verify that backfill materials is free of clay, rock,, gravel larger than 6 in. in any dimension, debris, waste, frozen materials, vegetable and other deleterious material.		Complete 4/14/03 PJ
1.1		DCN MSS-1, drawing 522058 & 522060	Verify	Random	Material Test Lab	Verify that compacted backfill, fill or pit run gravel meets at least 90% maximum dry density.		Complete 4-28/03 PJ
1.2		DCN MSS-1, drawing 522058 & 522060	Verify	Random	Material Test Lab	Verify that sand bedding for conduit is -3/8 inch in the Satisfactory Soil Material Group. (Ref. AASHTO M145, A-1, A-2-4, A-2-5 AND A-3)		complete 4-17-03 PJ
1.3		DCN MSS-1, drawing 522058 & 522060	Verify	Random	FE	Set Trailer and Anchor. Verify complete and level.		Comp 4/5/03
1.4		DCN MSS-1 drawing 522058 & 522060	Visual	As compl.	FE	Verify that no suspect/counterfeit items have been utilized in the installation of the drum assay trailer installation		Comp 4/5/03

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CONSTRUCTION PLANNING PACKAGE, CONSUMER GRADE

Field Engineer: Steve Moody

Date: 3/8/03

WO/SC/PO No. 02-037	Project Engineer: Steve Davies	PE Approval: <i>Steve Davies 4/8/03</i>	PFE Approval: <i>David Behrens 4/8/03</i>
Activity/Project Description: OU 7-10 Glovebox Excavator Method Project - Facility Package			Release Date:

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CPP No. 13233-X-05		Rev. 0	Page 1 of 8				
Item No.	Item/Material or Equipment	Spec./Code Reference	Method/Procedure Reference	Freq.	Perform By	Instructions	Status/Date/Initials
1	Prevent sloughing of dirt into the fire piping drain valve areas.	FCN 13233-179	FCN 13233-179	As compl.	FE	Verify retaining pieces are installed per FCN 13233-179. 2 LOCATIONS	complete 4/18/03 SM

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CONSTRUCTION PLANNING PAGE, CONSUMER GRADE

ORIGIN. _

Field Engineer: Steve Moody

Date: 4/22/03

WO/SC/PO No. 02-037	Project Engineer: Steve Davies	PE Approval: <i>[Signature]</i> 4/22/03	PFE Approval: <i>[Signature]</i>
Activity/Project Description: OU 7-10 Glovebox Excavator Method Project - Facility Package			Release Date:

		Rev. 0	Page 1 of 1						
Item No.	Item/Material or Equipment	Spec./Code Reference	Method/Procedure Reference	Freq.	Perform By			Status/	Date/Initials
1	Electrical Raceways	16110	DCN-MSS-1 and DCN-MSS-2 NEC Art. 344	As compl.	FE	Verify Electrical raceways are installed complete in accordance with DCN-MSS-1 and DCN-MSS-2, the Specifications and NEC Art. 344		<i>[Signature]</i>	5/1/03
2	Cable, Wire, Connectors, and Misc. Devices	16120	DCN-MSS-1 and DCN-MSS-2 NEC Art. 225	As compl.	FE	Verify all wire is installed complete in accordance with DCN-MSS-1 and DCN-MSS-2, the Specifications and NEC Art. 225		<i>[Signature]</i>	5/1/03
3	Electrical	16195 16195	DCN-MSS-1 and DCN-MSS-2			Specifications		<i>[Signature]</i>	
		16360	DCN-MSS-1 and DCN-MSS-2 NEC Art 230	As compl.	FE	Verify all equipment is installed complete in accordance with DCN-MSS-1 and DCN-MSS-2, the Specifications and NEC Art 230		<i>[Signature]</i>	5/1/03
		16450	DCN-MSS-1 and DCN-MSS-2 NEC Art 250	As compl.	FE	Verify grounding is complete and in accordance with NEC Art 250		<i>[Signature]</i>	5/1/03
		16460	DCN-MSS-1 and DCN-MSS-2 NEC art 450	As compl.	FE	Verify transformer is installed complete and in accordance with DCN-MSS-1 and DCN-MSS-2, the Specifications and NEC art 450		<i>[Signature]</i>	5/1/03
	and Outdoor, under 600 volts								
7	Lighting	16500	DCN-MSS-1 and DCN-MSS-2	As compl.	FE	Verify lighting is installed complete and in accordance with DCN-MSS-1 and DCN-MSS-2, the Specifications and NEC Art 410		<i>[Signature]</i>	5/1/03
8	GENERAL			As compl.	FA	CHK SUSPECT/COUNTERFEIT PORTS		<i>[Signature]</i>	5/1/03

[Signature] 4/22/03

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Date: 8/20/02

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CONSTRUCTION PLANNING PAC...GE, CONSUMER GRADE

Field Engineer: D.R. Johnson

Date: 8/27/02

WO/SC/PO No. PWO-02-036	Project Engineer: Steve Davies	PE Approval: <i>[Signature]</i>	PFE Approval: <i>[Signature]</i> <u>9/1/02</u>
Activity/Project Description: OU 7-10 Glovebox Excavator Method - Facility Structures			Release Date:

CPP No. 22177-X-02		Rev. 0	Page 1 of 2				
Item No.	Item/Material or Equipment	Spec./Code Reference	Method/Procedure Reference	Freq.	Perform By	Instructions	Status/Date/Initials
1	Structural Steel – Welding – DCN-FS-7 & DCN-FS-3	Spec 5100	AWS D 1.1, TPR-4981, Appendix D Visual 100%	As completed	QI	Visually inspect welds per AWS D 1.1(Stairs & Pipe Chases) Note: weld size to be per DCN Submit Weld Maps <i>4/24/03</i> Final welds only	<i>4-7903</i> CER
2	Raceways – DCN-FS-7	N/A	NEC Chapter 3 Guideline E-2	As completed	FE	Verify all raceways are installed per the Drawing E-1, the NEC and meet the requirements of Guideline E-2	<i>9/19/03</i>
3	Raceways – Temporary Lighting	N/A	NEC Chapter 3 Guideline E-2	As completed	FE	Verify all raceways are installed per the NEC and meet the requirements of Guideline E-2 NOTE: Field installation to be in accordance with an approved FCN	
4	Electrical Panels – Temporary Lighting	N/A	NEC Art 110, NEC Chapter 3, NEC Chapter 4, Guideline E-3	As Needed	FE	Verify all Electrical Panels are installed in accordance with the NEC and meet the requirements of Guideline E-3 NOTE: Field installation to be in accordance with an approved FCN	
5	Electrical Equipment – Temporary Lighting	N/A	NEC Art 110, NEC Chapter 3, NEC Chapter 4, Guideline E-4	As Needed	FE	Verify all electrical equipment is installed per the NEC and meet the requirements of Guideline E-4 NOTE: Field installation to be in accordance with an approved FCN	
6	Wire & Cable – Temporary Lighting	N/A	NEC Chapter 3, Guideline E-5	As Needed	FE	Verify all wire and cable is installed per the NEC and meet the requirements of Guideline E-5 NOTE: Field installation to be in accordance with an approved FCN	
7	Terminations – Temporary Lighting	N/A	NEC Chapter 3, Guideline E-6	As Needed	FE	Verify all terminations are installed per the NEC and meet the requirements of Guideline E-6 NOTE: Field installation to be in accordance with an approved FCN	

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8	Lighting System Temporary Lighting	N/A	NEC Art 410, Guideline E-7	As Needed	FE	Verify lighting systems are installed complete and meet the requirements of Guideline E-7 NOTE: Field installation to be in accordance with an approved FCN	
9	Grounding- DCN FS-2	N/A	NEC Art 250, Guideline E-8	As Needed	FE	Verify grounding is installed per DCN-FS-2 (Sketch E-1) and meets the requirements of Guideline E-8	
10	Grounding Temporary Lighting	N/A	NEC Art 250, Guideline E-8	As Needed	FE	Verify grounding is complete and meets the requirements of Guideline E-8 NOTE: Field installation to be in accordance with an approved FCN	
11	Suspect Parts	N/A	Random Inspection MCP-9110	Field Verify	QI	Perform random inspection for suspect / counterfeit parts	

Items # 3 THROUGH 11 DELETED - WORK WAS NOT PERFORMED - LIGHTING W/AS INSTALLED FOR TEMPORARY USE ONLY. ALL MATERIAL AND EQUIPMENT REMOVED PRIOR TO END OF CONSTRUCTION. DJ 4/29/03

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CONSTRUCTION PLANNING P_A-XAGE, CONSUMER GRADE

Field Engineer: D.R. Johnson

Date: 8/27/02

WO/SC/PO No. PWO-02-036	Project Engineer: Steve Davies	PE Approval: <i>[Signature]</i> E.M.H.	PFE Approval: <i>[Signature]</i> E.M.H.
Activity/Project Description: OU 7-10 Glovebox Excavator Method - Facility Structures			Release Date:

CPP No. 22177-X-03		Rev. 0	Page 1 of 1				
Item No.	Item/Material or Equipment	Spec./Code Reference	Method/Procedure Reference	Freq.	Perform By	Instructions	Status/ Date/Initials
1	Earthwork -	Spec 02200	Guideline C-19	As completed	FE	Verify compaction of backfilling is in accordance with spec 02200 "Placement" and "Compaction" sections	Complete 11-6-02 PJ
2	Structural Steel - Welding -	Spec 05100	AWS D 1.1, TPR 4001, Appendix D Visual 100%	As completed	QI	Visually inspect welds per AWS D 1.1 Note: weld size to be per DCN <i>DELETED</i> INSPECTION PART OF SS. WES-BASE PLATES <i>SHUTTER</i>	<i>[Signature]</i> 8/29/03

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CONSTRUCTION PLANNING P, .<AGE, CONSUMER GRADE

WO/SCIP/PO No. PWO-02-036	Project Engineer: Steve Davies	PE Approval:	PFE Approval:
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DPP No. 22177-X-04		Rev. 0	Page 1 of 1				
Item No.	Item/Material or Equipment	Spec./Code Reference	Method/Procedure Reference	Freq.	Perform By	Instructions	Status/Date/Initials
1	Structural Steel - Welding -	Spec 05100 - Sketches 1.2 and 3 (Made from dwgs 522673-1, 522674-1, 522675-1)	AWS D 1.1, TPR-4981, Appendix D Visual 100%	As completed	QI	Visually inspect welds per AWS D 1.1 Note: weld size to be per Sketches 1, 2, & 3 (Made from dwgs 522673-1, 522674-1, 522675-1)	
2	General	Sketches 1.2 and 3 (Made from dwgs 522673-1, 522674-1, 522675-1)	Visual	As completed	QI	Verify modifications to the Overburden Transfer Skid frame per Sketches 1, 2 and 3 (Made from dwgs 522673-1, 522674-1, 522675-1) are complete.	

Work WAS CANCELLED - MOD TO GLOVEBOX Mock-UP ONLY - MODS TO THIS PROJECT NOT PERFORMED BY BBWI 4/29/03

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CONSTRUCTION PLANNING PACKAGE, CONSUMER GRADE

ORIGINAL

Field Engineer: D.R. Johnson

Date: 11/1/02

WO/SC/PO No. 02-037 Project Engineer: Steve Davies PE Approval: SD Davies 4/26/03 PFE Approval: [Signature] 4/29/03
Activity/Project Description: OU 7-10 Glovebox Excavator Method Project - Facility Package Facility Structures Release Date: 4/28/03

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Item No.	Item/Material or Equipment	Spec./Code Reference	Method/Procedure Reference	Freq.	Perfor m By	instructions	Status/ Date/Initials
1	Sealant installation	SOW-541	Visual	As Completed	FE	Clean metal and prepare for Joint filler in the RCS	<u>4/29/03</u>
2	Sealant installation	SOW-541	Visual	As Completed	FE	Install caulk in ioints and on rivet heads in the RCS	<u>4/29/03</u>
3	Sealant installation	SOW-541	Visual	As Completed	FE	Clean metal and prepare for Joint filler in the PAR	<u>4/29/03</u>
4	Sealant installation	SOW-541	Visual	As Completed	FE	Install caulk in joints and on rivet heads in the PAR	<u>4/29/03</u>
5	Sealant installation	sow-541	Visual	As Completed	FE	Clean metal and prepare for Joint filler in the Emergency Exit	<u>4/29/03</u>
6	Sealant installation	SOW-541	Visual	As Completed	FE	Install caulk in ioints and on rivet heads in the Emergency Exit	<u>4/29/03</u>
7	Sealant installation	SOW-541	Visual	As Complete	FE	Install the tape discs as per directions in SOW -541 in the RCS	<u>4/29/03</u>
8	Sealant Installation	SOW-541	Visual	As Complete	FE	Install the Tape on joints as per SOW-541 in the RCS	<u>4/29/03</u>
9	Sealant Installation	SOW-541	Visual	As Complete	FE	Install the tape discs as per directions in SOW -541 in the PAR	<u>4/29/03</u>
10	Sealant (Installation	SOW-541	Visual	As Complete	FE	Install the Tape on joints as per SOW-541 in the PAR	<u>4/29/03</u>
11	Sealant Installation	SOW-541	Visual	As Complete	FE	Install the tape discs as per directions in SOW -541 in the Emergency Exit	<u>4/29/03</u>
12	Sealant Installation	SOW-541	Visual	As Complete	FE	Install the Tape on joints as per SOW-541 in the Emergency Exit	<u>4/29/03</u>
13	Emergency Exit Door Stairs	02-036-51	Visual	As Completed	FE	install angle iron between the stair assembly and the red iron on the three emergency exits.	<u>4/29/03</u>
14	Emergency Exit Door Stairs	02-036-51	Visual	As Complete	FE	Heat-sealthe flashing between the WES fabric and the Stair awning at the three emergency exits.	<u>4/29/03</u>

15	WES Air Leakage	SPC-398	Visual	pretest	FE	Ensure that the prerequisites have been done according to the attached instructions.	4/29/03
16	WES Air Leakage	SPC-389	Visual	Pretest	FE	Perform test in accordance with the attached instructions.	4/29/03
17	Load out Extension		Visual	As Complete	II	Observe that the plate has been welded with a minimal of distortion (No weld Map required)	4/29/03
18	Load out Extension		Visual	As Complete	FE	Ensure the metal has been painted.	4/29/03
19	Sealant Installation	SOW-541	Visual	As Complete	FE	Install caulk in joints and apply weather stripping to doors within the TA	4/29/03
20	Sealant Installation	SOW-541	Visual	As Complete	FE	Install caulk in joints and on rivet heads in the PMR	4/29/03
21	Sealant Installation	SOW-541	Visual	As Complete	FE	Install the tape disks as per directions in SOW-541 in the PMR	4/29/03
22	Sealant Installation	SOW-541	Visual	As Complete	FE	Install the Tape on joints as per SOW-541 in the PMR	4/29/03

Field Engineer: Steve Moody

Date: 5/1/03

WO/SC/PO No. PWO-02-036	Project Engineer: Steve Davies	PE Approval: <i>[Signature]</i> 5/1/03	PFE Approval: <i>[Signature]</i>
Activity/Project Description: OU 7-10 Glovebox Excavator Method - Facility Structures			Release Date:

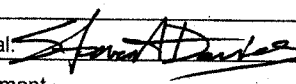
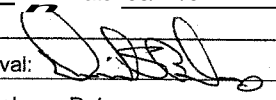
CPP No. 22177-X-06		Rev. 0	Page 1 of 1				
Item No.	Item/Material or Equipment	Spec./Code Reference	Method/Procedure Reference	Freq.	Perform By	instructions	Status/ Date/Initials
1	Structural Steel - Welding -	FCN 02-036-56	AWS D 1.1, TPR-4981, Appendix D Visual 100%	As completed	QT	Visually inspect welds per AWS D 1.1 Note: weld size to be per FCN 02-036-56	CER 5-1-03
2	Installation Complete	FCN 02-036-56	Visual	As completed	FE	Visually inspect for completeness per FCN 02-036-56 Dust Exhaust Test Port	EW 5/1/03

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CONSTRUCTION PLANNING PACKAGE, CONSUMER GRADE

Field Engineer: Darin Johnson

Date: 05/22/02

WO/SC/PO No. PWO-02-035	Project Engineer: Steve Davies	PE Approval: 	PFE Approval: 
Activity/Project Description: OU7-10 Glovebox Excavation. Method Project Site Development			Release Date:

CPP No. 21052-C-01		Rev. 0	Page 1 of 2				
Item No.	Item/Material or Equipment	Spec./Code Reference	Method/Procedure Reference	Freq.	Perform By	Instructions	Status/Date/Initials
N/A	N/A	N/A	N/A	N/A	N/A	CHECKLISTS 414.A12, 414.A13, 414.A14, 414.A15 & 414.A17 (REF. TPR-4921) ARE BEING PILOTED THRU THIS CONSTRUCTION PLANNING PACKAGE. AND SUBJECT TO CLARIFICATION/ REVISION DURING THE CONSTRUCTION ACTIVITIES WITH THE APPROVAL OF THE QE AND THE RE / FE.	N/A
1.0	Earthwork	2200 pg. 2, line 25	Verify	Random	FE	Verify that backfill materials is free of clay, rock,, gravel larger than 6 in. in any dimension, debris, waste, frozen materials, vegetable and other deleterious material.	7-31-02 CER
1.1		2200 pg. 5, line 28 & pg. 6, line 38	Verify	Random	FE	Verify that compacted backfill, fill or pitrun gravel meets at least 90% maximum dry density.	7-31-02 CER
1.2		2200 pg. 2, line 33	Verify	Random	FE	Verify that riprap is rounded rock or fractured basalt, 6-8 inches in diameter max.	7-31-02 CER
1.3		2200 pg. 6, line 20	Verify	Random	FE	Verify that the Geotextile Fabric has been placed on prepared subgrade in accordance with the manufacturers recommendations as shown on the drawings or as directed.	6/25/02 DJ
1.4		2200 pg. 2, line 36	Verify	Random	MTL	Verify that sand bedding for pipe is -3/8 inch in the Satisfactory Soil Material Group. (Ref. AASHTO M145, A-1, A-2-4, A-2-5 AND A-3) IR number: 116961362	6/18/02 DJ
3.0	Cast in Place Concrete	3300 pg. 8, line 1	Visual	Random	QI	Complete a " for Concrete Pre-placement. Placement. and Post-Placement for each placement inspected. Attach the-checklists to the inspection reports. IR number: 1	7-3-02 CER

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3.1 ✓		3300 pg. 4, line 26	Visual / TPR-4952	Random	MTL	Verify that the correct concrete mix is placed in the location specified and that it meets the specified compressive strength. Inspections shall be performed for each type of concrete utilized: Class 20, 25, 30, 40, 45. NOTE 1: Obtain 4 cylinders for Class 40 and 45 concrete. NOTE 2: Sample and test at least one batch each day <u>or</u> A) at least once for each 5000 sf placed each day for surface areas, such as walls and slabs <u>or</u> B) at least once for each 150 yards placed for all other placements. NOTE 3: Placement during inclement weather conditions shall be in accordance with ACI-305 or 306, as applicable. IR number;	6/20/02 J MTL Rover 12054128
3.2		3300 pg. 4, line 26 & pg. 12, line 13	Visual / TPR-4952	Random	MTL	Verify that the air content, slump and density are per the specification. Inspections shall be performed for each type of concrete utilized: Class 20, 30, IR number:	7-3-02 CEH
4.0,	Precast Concrete	3400 pg. 4, line 3 & 35	Verify	Random	FE	Verify that the precast concrete complies with the tolerances in the specification and are free from damage.	7-3-02 CEH
5.0	Structural Steel and Misc. Metals	5100 pg. 5, line 30	Visual / TPR-4981	100%	QI	Visually inspect all welds in accordance with AWS D1.1 requirements. IR number: No Onsite Welding	NA 9/2/02
5.1		5100 pg. 2, line 44	Verify	100%	QI	Verify that welders are qualified to the WPS being utilized. No Onsite Welding	K/A 9/2/02

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CONSTRUCTION PLANNING PACKAGE, CONSUMER GRADE

Field Engineer: Darin Johnson

Date: 05/22/02

WO/SC/PO No. PWO-02-035	Project Engineer: Steve Davies	PE Approval: <i>[Signature]</i>	PFE Approval: <i>[Signature]</i>
Activity/Project Description: OU7-10 Glovebox Excavation. Method Project Site Development			Release Date:

CPP No. 21052-X-01		Rev. 0	Page 1 of 3				
Item No.	Item/Material or Equipment	Spec./Code Reference	Method/Procedure Reference	Freq.	Perform By	Instructions	Status/Date/Initials
N/A	N/A	N/A	N/A	N/A	N/A	CHECKLISTS 414.A19, 414.A20, 414.A21, 414.A22, 414.A23, 414.A24, 414.A25, 414.A26, 414.A27, 414.A28, 414.A29, 414.A31, 414.A32 & 414.A33 (REF. TPR-4921) ARE BEING PILOTED THRU THIS CONSTRUCTION PLANNING PACKAGE. AND SUBJECT TO CLARIFICATION/ REVISION DURING THE CONSTRUCTION ACTIVITIES WITH THE APPROVAL OF THE QE AND THE RE/ FE.	N/A
1.0	Painting	1900 pg.5, line 13	Verify	Random			J 7/30/02
2.0	Temporary Fire Riser Building	3117 pg. 9, line 3 & pg. 3, line 1 thru 28	Verify SHOP INSPECTION HOLD POINT	Random	FE	Prior to shipment verify that the building was constructed in accordance with the approved shop drawings. IR number: <i>BUILDING WAS BUILT IN PLACE, NO SHOP INSPECTION</i>	7/22/02 J
2.1		3117 pg. 3, line 32 thru 36	Verify	Random	FE	Verify that the building has been sealed to ensure a weatherproof enclosure and anchored using 3/8" x 8 minimum embedment concrete anchor bolts , 2-0 oc at base plate	7/22/02 J
2.2		3117 pg. 4, line 1 thru 43 & pg. 5, line 1 thru 28	Verify SHOP INSPECTION HOLD POINT	Random	FE	Prior to shipment verify that the electrical and associated equipment has been installed in accordance with the approved shop drawings, including : 1) service wiring 2) lighting 3) receptacles 4) labels 5) heaters 6) telephone 7) data 8) fire alarm	7/22/02 J

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3.0	Underground Fire Protection Piping	13505 pg. 7, line 13 and pg. 8, line 10	Verify HOLD POINT	100%	QI	Verify that the piping system has been flushed in accordance with the subcontractors approved procedure. IR number:	7-19-02 CEK
3.1		13505 pg. 7, line 13	Verify HOLD POINT	100%	QI	Witness hydrostatic testing of the piping system using subcontractors approved procedure. IR number:	7-19-02 CEK
4.0	Dry Type Fire Protection Systems	13911 pg.8, line 28	Verify HOLD POINT	100%	QI	Verify that the piping system has been flushed in accordance with the subcontractors approved procedure. IR number:	7-19-02 CEK
4.1		13911 pg. 8, line 13	Verify HOLD POINT	100%	QI	Witness hydrostatic testing of the piping system using subcontractors approved procedure. IR number:	7-19-02 CEK
4.2		13911 pg. 8, line 13	Verify HOLD POINT	100%	QI	Witness air pressure leakage testing of the piping system using subcontractors approved procedure. IR number:	7-19-02 CEK
5.0	Manual Deluge Systems (Fire Hydrant and Future RCS)	13914 pg. 8, line 8	Verify HOLD POINT	100%	QI	Verify that the piping system has been flushed in accordance with the subcontractors approved procedure. IR number:	7-19-02 CEK
5.1		13914 pg. 8, line 8	Verify HOLD POINT	100%	QI	Witness hydrostatic testing of the piping system using subcontractors approved procedure. IR number:	7-19-02 CEK
6.0	Electrical General Provisions	16000 pg. 3, line 29	Verify	Random	FE	Verify that electrical equipment has been permanently labeled	7/30/02 SR
7.0	Electrical Raceways	16110 pg. 3, line 33	Verify	Random	FE	Verify that the raceway installation complies with the drawings and specification requirements.	7/30/02 SR
8.0	Cable, Wire, Connectors and misc. devices	16120 pg. 4, line 38	Verify HOLD POINT	100%	FE	Witness megger testing in accordance with the subcontractors approved procedure. VDR-28476, VPR-28240	7/31/02 9/17/02
8.1		16120 pg. 5, line 4	Verify HOLD POINT	100%	FE	Witness torquing of electrical connections.	7/30/02 SR
9.0	Insulated Medium Voltage Cable and Connectors	16124 pg. 5, line 14	Verify HOLD POINT	100%	QI	Witness cable testing after installation of termination kits. IR number: 02/052-E-002	7/30/02 mL
10.0	Disconnect Switches 600 V and less	16360 pg. 2, line 42	Verify	Random	FE	Verify that the equipment installation complies with Articles 110, 230 and 240 of the NEC, drawings and specification.	7/30/02 mV

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11.0	Grounding	16450 pg. 3, line 3	Verify	Random	FE	Verify that the equipment installation complies with Article 250 of the NEC, drawings and specification. <i>28586</i>	7/25/02 <i>gj</i>
12.0	ATS, Delayed Transition Type	16603 pg. 3, line 27	Verify	Random	FE	Verify that the equipment installation complies with Articles 110, 230 and 240 of the NEC, drawings and specification.	7/30/02 <i>gj</i>
12.10		16603 pg. 3, line 34	Verify HOLD POINT	100%	FE	Witness ATS testing to confirm compliance with the specification.	7/30/02 <i>gj</i>